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An Item Analysis of Hurlburt Vocabulary Tests

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Thesis

AN ITEM ANALYSIS OF  
HURLBURT VOCABULARY TESTS

Submitted by  
Anita Serena McAuliffe  
(B.A., Tufts College, 1948)

In partial fulfillment of the requirements  
for the Degree of Master of Education

1 9 4 9

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GIFT OF  
ANITA SERENA McAULIFFE  
SCHOOL OF EDUCATION  
JUNE 13, 1949  
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific requirements for record-keeping, including the need to maintain separate accounts for each transaction and to ensure that all records are properly indexed and filed.

3. The third part of the document discusses the importance of regular audits and reviews of the records. It states that audits should be conducted at least once a year and that the results of the audits should be reported to the appropriate authorities.

4. The fourth part of the document discusses the importance of training and education for all personnel involved in the record-keeping process. It states that all personnel should receive regular training and education to ensure that they are up-to-date on the latest record-keeping practices.

5. The fifth part of the document discusses the importance of maintaining the confidentiality of the records. It states that all records should be stored in a secure location and that access to the records should be restricted to authorized personnel only.

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CHAPTER I  
INTRODUCTION PLAN OF STUDY





# CHAPTER I

## INTRODUCTION AND PLAN OF STUDY

Purpose: This study is an item analysis of the written recall phase of the Hurlburt test involving nouns, verbs, and adjectives.

The items will be analyzed for

1. Discrimination between grades nine and eleven.
2. Distribution of item difficulty.
3. Distribution of item validity.
4. Diagnostic possibilities of the item.

Plan of Study: The Hurlburt vocabulary test of written recall of nouns, verbs and adjectives is devised for the purpose of measuring ninth and eleventh graders facility in summoning words of synonym relationship for use in speaking and writing. This tests consists of 115 items for each part of speech.

This analysis is based on two hundred tests, one hundred in each of grades nine and eleven. Fifty of the top scores and fifty of the lowest scores in each grade were included.

An analysis is made for each of the three parts of speech included in the tests in order to determine:

- (1) The total number of correct and incorrect responses as well as the blanks for each item in the test.



(2) On the basis of these scores the class of 100 pupils is divided into two groups of fifty students to a group. One group for those in the upper level of ability and the other for those in the lower level of ability. The percentage of those pupils marking the item correct in upper group is compared to those marking the item correct in the lower group.<sup>(1)</sup>

(3) The purpose of item difficulty is to ascertain the percentage of pupils who fail to answer the item correctly. It is preferred to have the majority of the items near the 50 per cent difficulty level and 50 per cent of the easy level. Items which the pupils mark either 100% right or 100% wrong should not be included in the tests. An item must differentiate between levels of abilities. Item difficulty is obtained by the average per cent of both upper and lower cases in the ninth and eleventh grades in order to ascertain the average difficulty for the two grades.<sup>(2)</sup>

(4) The distribution of item validity is made to determine whether an item has significant difference between upper and lower levels of abilities in the ninth and eleventh grade.<sup>(3)</sup>

---

1 Greene, Harry A., Jorgensen, Albert N., Gerverech, J Raymond. "Measurement & Evaluation in the Elementary School", Longmans, Greene & Company, New York, 1943 625pp.

2. Davis, Frederick B., Item Analysis Data, Pub. Ed. M Thesis Harvard University, 1946, p. 1.

3. Greene, op.cit. pp. 60-62.





(5) The last step in this study is for diagnostic purposes. To determine those items getting the greater number of different responses even though the response was wrong.<sup>(1)</sup>

---

1. Ibid., pp.57



CHAPTER II  
ANALYSIS OF DATA





## CHAPTER II

### ANALYSIS OF DATA

When the data were all compiled, they consisted of the following tables:

A. Nouns: There are 100 tests for the ninth grade and 100 tests for the eleventh grade. These tests were divided into two groups - 50 upper and 50 lower. The items of the test were analyzed for

1. Per cent correct response

2. Item difficulty of which we find the range to be .5 to .89. Items number 7, 20, 60, 67, 83, 85, 92, 93, 97, 113, 114 have no grade discrimination for they are negative values due to the fact that ninth graders obtained higher scores than the eleventh. Items as 1, 5, 11, 17, 21, 33, 46, 48, 53, 59, 72, 73, 80 to have a wide difference between the ninth and eleventh grade.

3. The third analysis was for distribution of item validity. Range is found to be .70 to 1. These items got greater responses in the average 10, 11, 13, 17, 18, 21, 23, 24, 35, 42, 45, 46, 47, 49, 66, 72, 80, 87, 92, 95, 99, 107, 109.

4. Fourth analysis was to obtain those items which were attempted the most by students, whether item was right or wrong. Items 1, 2, 3, 4, 6, 7, 21, 30, 31, 34, 36, 45, 47, 49, 65, 86, 102, obtained 70 or better attempts.



B. Verbs: In the item difficulty such numbers as 29, 32, 35, 50, 52, 54, 75, 80, 86, 87, 93, 96, 98, 101, 108, 114, validity response ranged from 57 to 1. The item getting greatest response was 97. Others that received high scores were 21, 45, 89, 96, 114. Attempts table shows a high response to items such as 12, 22, 61, 62, 69, 70. These items received 88 or better pupil attempts.

C. Adjectives: Although adjective meaning has a very low correct response, they had a very high attempts scores. Item difficulty Table II shows great difficulty not only in the lower 50 cases but in the upper 50. Item difference scores were very low with a few negative items. Highest score made was 28. This does not show a wide discrimination between grades nine and eleven. Lowest score was 0.



TABLES ON NOUN RECALL





## ANALYSIS OF TABLE I

### NOUNS

Purpose of Table I is to show which items have greater grade discrimination.

Findings in Table I show that:-

Good Items are: 1, 5, 21, 33, 46, 48, 53, 72, 73, 77, 80, 84

Poor Items (no discrimination) are: 7, 20, 60, 67, 83, 85, 91, 92, 93, 94, 97, 113.



TABLE I  
PER CENT OF CORRECT RESPONSES OF  
NOUN RECALL

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
1	30	12	64	34
2	64	28	80	28
3	88	68	94	74
4	94	72	98	78
5	34	14	86	10
6	92	70	88	74
7	96	84	94	82
8	78	50	88	60
9	2	8	26	4
10	66	28	72	42
11	88	40	94	64
12	10	4	16	0
13	82	42	98	58
14	76	64	82	58
15	72	42	84	54
16	4	0	22	0
17	78	16	92	30
18	52	6	76	6
19	2	0	2	0
20	6	0	0	2



## NOUN RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
21	70	16	94	40
22	2	0	10	0
23	36	4	50	14
24	34	0	46	12
25	8	0	10	4
26	22	2	46	8
27	14	0	18	6
28	2	0	2	0
29	42	0	64	8
30	40	24	42	42
31	32	26	60	22
32	20	0	32	6
33	74	26	98	42
34	92	64	92	84
35	34	2	62	6
36	66	56	84	68
37	54	32	66	28
38	4	2	28	2
39	6	0	18	2
40	12	0	44	4
41	12	0	24	2
42	52	12	66	18
43	12	6	22	2



## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>		<u>Eleventh Grade</u>	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
44	18	0	22	10
45	88	44	86	60
46	18	0	56	4
47	68	6	82	26
48	24	6	68	18
49	72	16	82	16
50	64	18	74	14
51	30	2	56	14
52	96	68	98	70
53	28	8	64	22
54	4	0	4	2
55	0	0	16	2
56	10	0	14	0
57	6	4	12	2
58	46	4	58	8
59	54	32	90	34
60	16	6	8	8
61	88	52	100	76
62	4	2	14	0
63	4	0	26	2
64	72	32	84	36
65	88	44	82	60
66	72	12	90	18





## NOUN RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
67	48	16	40	14
68	6	2	6	4
69	64	20	84	26
70	16	4	28	4
71	16	4	24	0
72	62	14	90	32
73	64	12	80	40
74	32	10	54	24
75	44	4	52	30
76	8	0	14	0
77	34	6	70	20
78	24	4	44	10
79	44	6	38	22
80	64	20	98	38
81	28	2	46	22
82	40	8	66	10
83	28	0	24	2
84	34	4	68	20
85	12	4	6	4
86	90	38	98	44
87	62	4	76	12
88	12	2	30	0
89	72	36	82	36



## NOUN RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
90	44	4	66	4
91	16	2	12	6
92	56	2	78	10
93	2	0	0	0
94	56	14	52	14
95	70	6	78	6
96	46	28	60	32
97	4	0	0	0
98	30	4	40	2
99	80	24	96	12
100	10	0	16	2
101	78	36	82	36
102	86	58	92	56
103	0	0	6	0
104	2	2	16	0
105	88	54	96	50
106	78	34	92	42
107	76	16	92	32
108	56	26	74	18
109	60	12	88	8
110	8	0	6	2
111	82	44	88	42



## NOUN RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
112	4	0	26	4
113	36	10	16	6
114	56	12	40	16
115	16	2	36	2



## ANALYSIS OF TABLE II

## NOUNS

Purpose of Table II is to determine those items which are most difficult and those which are least difficult.

Findings in Table II show that:-

Items 2, 3, 4, 6, 7, 8, 11, 13, 14, 15, 17, 21, 33, 34, 36, 45, 52, 59, 61, 65, 80, 86, 89, 99, 101, 102, 105, 106, 107, received 50 or higher for difficulty.

Whereas items 9, 12, 16, 19, 20, 22, 25, 27, 28, 32, 38, 39, 40, 41, 43, 44, 46, 54, 55, 56, 57, 60, 62, 63, 68, 70, 71, 76, 83, 85, 88, 91, 93, 97, 100, 103, 104, 110, 112, 115, received 20 or less.





TABLE II  
DISTRIBUTION OF ITEM DIFFICULTY  
NOUN RECALL

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
1	21	49	35.	28
2	46	54	50.	8
3	78	84	81.	6
4	83	88	85.5	5
5	24	48	36.	24
6	81	81	81.	0
7	90	88	81.	-2
8	64	74	69.	10
9	5	15	10.	10
10	47	57	52.	10
11	64	79	71.5	15
12	7	8	7.5	1
13	62	78	70.	16
14	70	70	70.	0
15	57	69	63.	12
16	2	11	6.5	9
17	47	61	54.	14
18	29	41	35.	12
19	1	1	1.	0
20	3	1	2.	-2
21	43	67	55.	24

# THE ANNALS OF THE ROYAL SOCIETY OF MEDICINE

Volume	Part	Page	Author
1	1	1	1
1	2	2	2
1	3	3	3
1	4	4	4
1	5	5	5
1	6	6	6
1	7	7	7
1	8	8	8
1	9	9	9
1	10	10	10
1	11	11	11
1	12	12	12
1	13	13	13
1	14	14	14
1	15	15	15
1	16	16	16
1	17	17	17
1	18	18	18
1	19	19	19
1	20	20	20
1	21	21	21
1	22	22	22
1	23	23	23
1	24	24	24
1	25	25	25
1	26	26	26
1	27	27	27
1	28	28	28
1	29	29	29
1	30	30	30
1	31	31	31
1	32	32	32
1	33	33	33
1	34	34	34
1	35	35	35
1	36	36	36
1	37	37	37
1	38	38	38
1	39	39	39
1	40	40	40
1	41	41	41
1	42	42	42
1	43	43	43
1	44	44	44
1	45	45	45
1	46	46	46
1	47	47	47
1	48	48	48
1	49	49	49
1	50	50	50
1	51	51	51
1	52	52	52
1	53	53	53
1	54	54	54
1	55	55	55
1	56	56	56
1	57	57	57
1	58	58	58
1	59	59	59
1	60	60	60
1	61	61	61
1	62	62	62
1	63	63	63
1	64	64	64
1	65	65	65
1	66	66	66
1	67	67	67
1	68	68	68
1	69	69	69
1	70	70	70
1	71	71	71
1	72	72	72
1	73	73	73
1	74	74	74
1	75	75	75
1	76	76	76
1	77	77	77
1	78	78	78
1	79	79	79
1	80	80	80
1	81	81	81
1	82	82	82
1	83	83	83
1	84	84	84
1	85	85	85
1	86	86	86
1	87	87	87
1	88	88	88
1	89	89	89
1	90	90	90
1	91	91	91
1	92	92	92
1	93	93	93
1	94	94	94
1	95	95	95
1	96	96	96
1	97	97	97
1	98	98	98
1	99	99	99
1	100	100	100

## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
22	1	5	3.	4
23	20	32	26.	12
24	17	29	23.	12
25	4	7	5.5	3
26	12	27	19.5	15
27	7	12	9.5	5
28	1	1	1.	0
29	21	36	28.5	15
30	32	42	37.	10
31	29	41	35.	12
32	10	19	9.5	9
33	50	70	60.	20
34	78	88	83.	10
35	18	34	26.	16
36	61	76	68.5	15
37	43	47	45.	4
38	3	15	9.	12
39	3	10	6.5	7
40	6	24	15.	18
41	6	13	9.5	7
42	32	42	37.	10
43	9	13	11.	4
44	9	16	12.5	7
45	66	73	69.5	7



## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
46	9	30	19.5	21
47	37	54	45.5	17
48	15	43	29.	28
49	44	49	46.5	5
50	41	44	42.5	3
51	16	35	25.5	19
52	82	84	83.	2
53	18	43	30.5	25
54	2	3	2.5	1
55	0	9	4.5	9
56	5	7	6.	2
57	5	7	6.	2
58	25	33	29.	8
59	43	62	52.5	19
60	11	8	9.5	-3
61	70	88	79.	18
62	3	7	5.	4
63	2	14	8.	12
64	52	60	56.	8
65	66	71	68.5	5
66	42	54	48.	12
67	32	27	29.5	-5
68	4	5	4.5	1
69	42	55	48.5	13



## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
70	10	16	13.0	6
71	10	12	11.	2
72	38	61	49.5	23
73	38	60	49.	22
74	21	39	25.	18
75	24	41	32.5	17
76	4	7	5.5	3
77	20	45	32.5	25
78	14	27	20.5	13
79	25	30	27.5	5
80	42	68	55.	26
81	15	34	24.5	19
82	24	38	31.	14
83	14	13	13.5	-1
84	19	44	31.5	25
85	8	5	6.5	-3
86	64	71	67.5	7
87	33	44	38.5	11
88	7	15	11.0	8
89	54	59	56.5	5
90	24	35	29.5	11
91	9	9	9.	0
92	29	14	26.5	-15





## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
93	1	0	.5	-1
94	35	33	34.	-2
95	38	42	40.	4
96	37	46	41.5	9
97	2	0	1.	-2
98	17	21	19.	4
99	52	54	53.	2
100	5	9	7.	4
101	57	59	58.0	2
102	72	74	73.	2
103	0	3	1.5	3
104	2	8	5.	6
105	71	73	72.	2
106	56	67	61.5	11
107	46	62	54.	16
108	41	46	43.5	5
109	36	48	42.	12
110	4	4	4.	0
111	63	65	64.	2
112	2	15	8.5	13
113	23	11	17.	-12
114	34	28	31.	-6
115	9	19	14.	10



## ANALYSIS OF TABLE III

## NOUNS

The purpose of this table is to determine those items having high validity and those having low validity.

Good items: (above 50) 18, 21, 33, 47, 49, 50, 66, 69, 72, 80, 86, 87, 90, 92, 95, 99, 107, 109.

Poor items: (scores below 10) 19, 21, 22, 25, 28, 30, 54, 55, 57, 60, 62, 68, 85, 91, 93, 97, 103, 104, 110.



TABLE III  
DISTRIBUTION OF ITEM VALIDITY OF  
NCUN RECALL

<u>Item</u>	<u>Upper 50 &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
1	18	30	24
2	36	52	44
3	20	20	20
4	22	20	21
5	20	76	48
6	22	14	18
7	12	12	12
8	20	28	24
9	6	22	14
10	38	30	34
11	48	30	39
12	6	16	11
13	40	30	35
14	12	24	18
15	30	30	30
16	4	22	13
17	62	62	61
18	46	70	58
19	2	2	2
20	6	2	4
21	54	54	54
22	2	10	6



## NOUN RECALL (cont.)

<u>Item</u>	<u>Upper 50 &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
23	32	36	34
24	34	34	34
25	8	6	7
26	20	38	29
27	14	12	13
28	2	2	2
29	42	56	49
30	16	0	8
31	6	38	22
32	20	16	18
33	48	56	52
34	18	8	13
35	32	56	44
36	10	16	13
37	22	38	30
38	2	26	14
39	6	16	11
40	12	40	26
41	12	22	17
42	49	48	44
43	6	20	13
44	18	12	15
45	44	26	45
46	18	52	35





## NOUN RECALL (cont.)

<u>Item</u>	<u>Upper 50 &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
47	62	56	59
48	18	50	34
49	56	66	61
50	46	60	53
51	28	42	35
52	18	28	23
53	20	42	31
54	4	2	3
55	0	14	7
56	10	14	12
57	2	10	6
58	42	50	46
59	22	56	39
60	10	0	5
61	36	24	30
62	2	14	8
63	4	24	14
64	40	48	44
65	44	22	33
66	60	72	66
67	32	26	29
68	4	2	3
69	44	58	51
70	12	24	18



## NOUN RECALL (cont.)

<u>Item</u>	<u>Upper 50 &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
71	12	24	18
72	48	58	53
73	52	40	46
74	22	30	26
75	40	22	31
76	8	14	11
77	28	50	39
78	20	34	27
79	38	16	27
80	44	70	57
81	26	24	25
82	32	56	44
83	28	22	25
84	30	48	39
85	8	2	5
86	52	54	53
87	58	64	61
88	10	30	20
89	36	46	41
90	40	62	51
91	14	6	10
92	54	68	61
93	2	0	1



NOUN RECALL (cont.)

<u>Item</u>	<u>Upper 50 &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
94	42	38	40
95	64	72	68
96	18	28	23
97	4	0	2
98	26	38	32
99	56	84	70
100	10	14	12
101	42	46	44
102	28	36	32
103	0	6	3
104	0	16	8
105	34	46	40
106	44	50	47
107	60	70	65
108	30	56	43
109	48	80	60
110	8	4	6
111	38	46	42
112	4	22	13
113	20	10	15
114	44	24	34
115	14	34	24



## ANALYSIS OF TABLE IV

## NOUNS

The purpose of this table is to determine those items receiving greater responses.

Good items: (above 75) 1, 2, 3, 4, 5, 6, 7, 8, 11, 13, 14, 21, 30, 34, 36, 45, 52, 61, 65, 105.

Poor items: (less than 50) 12, 16, 19, 20, 22, 25, 26, 28, 29, 30, 32, 35, 38, 39, 40, 41, 42, 43, 44, 46, 55, 56, 57, 58, 63, 68, 70, 71, 74, 76, 77, 78, 93, 97, 100, 103, 104, 110, 111, 112, 115.





TABLE IV  
NUMBER OF PUPIL ATTEMPTS OF EACH ITEM OF  
NOUN RECALL

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
1	81	95	88.
2	71	80	75.1
3	91	98	94.5
4	87	91	89.
5	47	65	56.
6	83	87	85.
7	92	92	92.
8	66	81	73.5
9	39	50	44.5
10	66	76	71.
11	77	86	81.5
12	22	41	31.5
13	76	91	83.5
14	77	77	77.
15	65	83	74.
16	21	35	28.
17	56	68	62.
18	50	60	55.
19	31	45	38.
20	38	58	48.
21	76	87	81.5
22	35	61	48.



## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
23	53	78	65.1
24	41	66	53.5
25	40	54	47.
26	34	52	43.
27	34	43	38.5
28	18	27	22.5
29	37	52	44.5
30	76	86	81.
31	66	74	70.
32	27	38	32.5
33	58	72	65.
34	92	93	92.5
35	27	40	33.5
36	80	89	84.5
37	47	48	47.5
38	21	47	34.
39	31	46	38.5
40	31	59	45.
41	28	38	33.
42	53	52	52.5
43	26	30	28.
44	34	57	45.5
45	78	83	80.5
46	34	61	47.5



## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
47	62	80	71.
48	50	65	57.5
49	68	74	72.
50	65	72	68.5
51	51	65	58.
52	89	85	87.
53	50	68	59.
54	24	33	28.5
55	7	17	12.
56	31	36	33.5
57	15	26	20.5
58	32	54	43.
59	57	74	65.1
60	49	63	56.
61	79	89	84.
62	52	67	59.5
63	35	54	44.5
64	73	77	75.
65	82	85	83.5
66	61	67	64.
67	65	78	71.5
68	33	35	34.
69	62	78	70.
70	34	50	42.



NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
71	21	36	28.5
72	56	76	66.
73	51	73	64.
74	36	64	50.
75	59	65	62.
76	23	47	35.
77	32	57	44.5
78	60	73	66.5
79	56	73	64.5
80	48	78	63.
81	48	73	60.5
82	45	64	54.5
83	45	61	53.
84	41	69	55.
85	37	34	35.1
86	68	80	74.
87	55	73	64.
88	33	35	34.
89	72	72	72.
90	61	63	62.
91	36	39	37.5
92	33	57	45.
93	38	40	39.
94	65	62	63.5



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5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
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14	14	14	14	14
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45	45	45	45	45
46	46	46	46	46
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73	73	73	73	73
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79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
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88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

## NOUN RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
95	50	56	53.
96	55	62	58.5
97	12	10	11.
98	32	54	43.
99	76	66	71.
100	38	47	42.5
101	66	67	66.5
102	74	74	74.
103	17	23	20.
104	24	29	26.5
105	79	75	77.
106	61	72	66.5
107	65	68	66.5
108	69	72	70.5
109	51	59	55.
110	14	18	16.
111	68	68	68.
112	7	21	14.
113	52	52	52.
114	65	64	64.5
115	18	32	25.



TABLE V  
SUMMARY OF THE FOUR TABLES  
AVERAGE SCORE FOR NOUNS

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
1	35	28	24	88
2	50	8	44	75.1
3	81	6	20	94.5
4	85.5	5	21	89.
5	36.	24	48	56.
6	81.	0	18	85.
7	81.	-2	12	92.
8	69.	10	24	73.5
9	10.	10	14	44.5
10	52.	10	34	71.
11	71.5	15	39	81.5
12	7.5	1	11	31.5
13	70.	16	35	83.5
14	70.	0	18	77.
15	63.	12	30	74.
16	6.5	9	13	28.
17	54.	14	61	62.
18	35.	12	58	55.
19	1.	0	2	38.
20	2	-2	4	48.
21	55.	24	54	81.5
22	3.	4	6	48.



## AVERAGE SCORE FOR NOUNS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
23	26.	12	34	65.1
24	23.	12	34	53.5
25	5.5	3	7	47.
26	19.5	15	29	43.
27	9.5	5.	13	38.5
28	1.	0	2	22.5
29	28.5	15	49.	44.5
30	37.	10	8	81.
31	35.	12	22	70.
32	9.5	9	18	32.5
33	60.	20	52	65.
34	83.	10	13	92.5
35	26.	16	44	33.5
36	68.5	15	13	84.5
37	45.	4	30	47.5
38	9.	12	14	34.
39	6.5	7	11	38.5
40	15.0	18	26	45.
41	9.5	7.	17	33.
42	37.	10	44	52.5
43	11.	4	13	28.
44	12.5	7	15	45.5
45	69.5	7	45	80.5

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## AVERAGE SCORE FOR NOUNS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
46	19.5	21	35	47.5
47	45.5	17	59	71.
48	29.	28	34	57.5
49	46.5	5	61	72.
50	42.5	3	53	68.5
51	25.5	19	35	58.
52	83.0	2	23	87.
53	30.5	25	31	59.
54	2.5	1	3	28.5
55	4.5	9	7	12.
56	6.	2	12	33.5
57	6.	2	6	20.5
58	29.	8	46	43.
59	52.5	19	39	65.1
60	9.5	-3	5	56.
61	79.	18	30	84.
62	5.	4	8	59.5
63	8.	12	14	44.5
64	56.	8	44	75.
65	68.5	5	33	83.5
66	48.	12	66	64.
67	29.5	-5	29	71.5
68	4.5	1	3	34.





## AVERAGE SCORE FOR NOUNS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
69	48.5	13	51	70.
70	13.0	6	18	42.
71	11.	2	18	28.5
72	49.5	23	53	66.
73	49.	22	46	64.
74	25.	18	26	50
75	32.5	17	31	62.
76	5.5	3	11	35.
77	32.5	25	39	44.5
78	20.5	13	27	66.5
79	27.5	5	27	64.5
80	55.	26	57	63.
81	24.5	19	25	60.5
82	31.	14	44	54.5
83	13.5	-1	25	53.
84	31.5	25	39	55.
85	6.5	-3	5	35.1
86	67.5	7	53	74.
87	38.5	11	61	64.
88	11.0	8	20	34.
89	56.5	5	41	72.
90	29.5	11	51	62.
91	9.	0	10	37.5
92	26.5	-15	61	45.

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## AVERAGE SCORE FOR NOUNS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
93	.5	-1	1	39.
94	34.	-2	40	63.5
95	40.	4	68	53.
96	41.5	9	23	58.5
97	1	-2	2	11
98	19	4	32	43.
99	53.	2	70	71.
100	7.	4	12	42.5
101	58.0	2	44	66.5
102	73.	2	32	74.
103	1.5	3	3	20.
104	5.	6	8	26.5
105	72.	2	40	77.
106	61.5	11	47	66.5
107	54.	16	65	66.5
108	43.5	5	43	70.5
109	42.	12	60	55.
110	4.	0	6	16.
111	64.	2	42.	18
112	8.5	13	13	14.
113	17.	-12	15	52.
114	31.	-6	34	64.5
115	14.	10	24	25.



## ANALYSIS OF TABLE I

### VERBS

Purpose of this chart is to determine those items discriminating between grades 9 and 11.

Good items (above 15) 7, 12, 21, 26, 45, 58, 61, 63, 65, 67, 71, 91, 104.

Poor items (below 5) 1, 6, 13, 18, 25, 27, 29, 30, 31, 32, 33, 35, 36, 37, 39, 40, 43, 46, 48, 49, 50, 51, 52, 54, 56, 59, 60, 66, 73, 75, 76, 79, 81, 85, 87, 88, 93, 95, 96, 97, 98, 99, 101, 106, 108, 109, 113, 114, 115.



TABLE I  
PER CENT OF CORRECT RESPONSES OF  
VERB RECALL

Item	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
1	40	28	44	28
2	88	46	86	60
3	64	16	70	22
4	10	4	22	10
5	50	4	60	16
6	4	2	12	2
7	48	16	72	30
8	0	0	16	0
9	16	2	30	8
10	0	0	20	4
11	94	44	92	72
12	74	32	86	64
13	88	54	86	66
14	8	0	20	2
15	0	2	20	0
16	80	20	84	42
17	66	10	66	34
18	0	0	6	0
19	26	0	36	8
20	24	2	34	14
21	64	14	86	28





## VERB RECALL (cont.)

Item	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
22	70	40	72	62
23	72	18	66	36
24	54	8	72	4
25	70	22	72	30
26	26	0	50	10
27	14	0	12	4
28	2	0	14	0
29	20	2	20	4
30	18	2	8	10
31	32	2	32	2
32	0	0	8	0
33	24	8	22	0
34	18	0	26	10
35	4	0	6	2
36	10	0	6	2
37	20	8	28	8
38	34	8	46	12
39	48	10	60	4
40	44	8	44	10
41	18	0	36	8
42	2	0	12	2
43	2	0	2	0
44	8	0	16	4



## VERB RECALL (cont.)

Item	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
45	52	10	82	24
46	74	20	74	24
47	82	22	86	32
48	44	10	34	22
49	42	4	42	4
50	64	8	52	26
51	6	0	0	0
52	0	0	4	0
53	50	6	32	2
54	18	2	24	4
55	46	0	28	6
56	4	0	4	0
57	10	0	18	2
58	32	4	62	34
59	32	6	40	2
60	38	10	30	22
61	60	20	84	72
62	98	64	100	92
63	44	16	60	40
64	68	14	64	42
65	26	0	38	28
66	12	0	14	8
67	52	16	70	46



VERB RECALL (cont.)

Item	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
68	32	6	44	22
69	94	60	98	82
70	94	52	100	66
71	32	4	68	12
72	24	0	40	12
73	0	2	12	2
74	88	54	92	68
75	0	2	4	0
76	2	0	0	0
77	10	0	34	4
78	28	0	30	10
79	4	2	6	0
80	8	2	0	0
81	2	2	6	0
82	8	0	22	2
83	0	0	22	2
84	6	0	16	0
85	2	0	8	0
86	46	18	50	6
87	6	0	4	0
88	6	0	6	0
89	98	42	100	54
90	62	8	64	22



## VERB RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
91	34	0	52	16
92	46	12	60	24
93	72	26	68	20
94	22	2	34	6
95	88	32	86	40
96	52	6	52	0
97	72	14	76	18
98	20	0	16	0
99	68	6	58	16
100	44	8	68	8
101	10	0	8	0
102	24	0	40	0
103	28	0	50	2
104	12	0	42	2
105	20	0	26	6
106	2	0	6	0
107	58	16	62	30
108	10	0	6	0
109	0	0	10	0
110	0	0	22	0
111	4	0	24	0
112	12	0	28	0
113	8	0	10	0





## VERB RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
114	70	16	62	16
115	42	10	58	14
116	6	0	14	0



## ANALYSIS OF TABLE II

## VERBS

Purpose of this chart is to determine those items which are most difficult and those least difficult.

Good items: 2, 11, 13, 14, 62, 69, 70, 74, 89.

Poor items: 8, 10, 15, 18, 27, 28, 32, 35, 42, 43, 44, 51, 52, 56, 57, 66, 73, 79, 82, 83, 84, 85, 87, 88, 98, 101, 106, 108, 111, 113, 114, 116.



TABLE II  
DISTRIBUTION OF ITEM DIFFICULTY

Item	VERB RECALL			Dif.Gr. 9 & 11
	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	
1	34	36	35.	2
2	67	73	70.	6
3	40	46	43.	6
4	7	16	11.5	9
5	27	38	37.5	11
6	3	7	5.0	4
7	32	51	41.5	19
8	0	8	4.	8
9	9	19	14.	10
10	0	12	6.	12
11	69	82	75.5	13
12	53	75	64.	22
13	71	76	73.5	5
14	4	11	75.	7
15	1	10	5.5	9
16	50	63	56.5	13
17	38	50	44.	12
18	0	3	1.5	3
19	13	22	17.5	9
20	13	24	18.5	11
21	39	57	48.	18
22	55	67	61.	12

THE  
OFFICE OF THE  
SECRETARY OF THE  
NAVY  
WASHINGTON, D. C.

1. The Secretary of the Navy has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter mentioned in the subject of the same.

2. The Bureau is at present unable to furnish the information requested, as the same is not contained in the files of the Bureau.

3. The Bureau is, however, endeavoring to obtain the same from the proper authorities, and will advise you as soon as it is possible to do so.

4. Very respectfully,  
Your obedient servant,  
[Signature]

## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
23	45	51	48.	6
24	31	38	34.5	7
25	46	51	48.5	5
26	13	30	21.5	17
27	7	8	7.5	1
28	1	7	4.0	6
29	11	12	11.5	1
30	10	9	9.5	-1
31	17	17	17.	0
32	0	4	2.	4
33	16	11	13.5	-5
34	9	18	13.5	9
35	2	4	3.	2
36	5	4	4.5	-1
37	14	18	16.0	4
38	21	29	25.0	8
39	29	32	30.5	3
40	26	27	26.5	1
41	9	22	15.5	13
42	1	7	4.	6
43	1	1	1.	0
44	4	10	7.	6
45	31	53	42.	22
46	47	49	48.	2





## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
47	52	59	55.5	7
48	27	28	27.5	1
49	23	23	23.	0
50	36	39	37.5	3
51	3	0	1.5	-3
52	0	2	1.	2
53	28	17	22.5	-11
54	10	14	12.	4
55	23	17	20.	-6
56	2	2	2.	0
57	5	10	7.5	5
58	18	48	33.	30
59	19	21	20.	2
60	24	26	25.	2
61	40	78	59.	38
62	81	96	88.5	15
63	30	50	40.	20
64	41	53	47.	12
65	13	33	23.	20
66	6	11	8.5	5
67	34	58	46.0	24
68	19	33	26.0	14
69	77	90	83.5	13



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	Dif.Gr.
				<u>9 &amp; 11</u>
70	73	83	78.	10
71	18	40	29.0	22
72	12	26	19.	14
73	1	7	4.	6
74	71	80	75.5	9
75	1	2	1.5	1
76	1	0	.5	-1
77	5	19	12.0	14
78	14	20	17.	6
79	3	3	3.	0
80	5	0	2.5	-5
81	2	3	2.5	1
82	4	12	8.0	8
83	0	12	6.0	12
84	3	8	5.5	5
85	1	4	2.5	3
86	32	28	30.	-4
87	3	2	2.5	-1
88	3	3	3.	0
89	70	77	73.5	7
90	35	43	39.	8
91	17	34	25.5	17
92	29	42	35.5	13
93	49	44	46.5	-5



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Dif.Gr.</u>	
			<u>Average</u>	<u>9 &amp; 11</u>
94	12	20	16.0	8
95	60	63	61.5	3
96	29	26	27.5	-3
97	43	47	45.	4
98	10	8	9.	-2
99	37	37	37.	0
100	26	38	29.	12
101	5	4	4.5	-1
102	12	20	16.0	8
103	14	26	20.0	12
104	6	22	14.0	16
105	10	16	13.0	6
106	1	3	2.	2
107	37	46	41.5	9
108	5	3	4.	-2
109	0	5	2.5	5
110	0	11	5.5	11
111	2	12	7.	10
112	6	14	10.	8
113	4	5	4.5	1
114	43	39	41.	-4
115	26	36	31.0	10
116	3	7	5.0	4



## ANALYSIS OF TABLE III

## VERBS

Purpose of this table is to determine those items with high and low validity.

Good items: 21, 24, 45, 46, 47, 61, 89, 95, 97, 114.

Poor items: 4, 6, 8, 10, 18, 28, 30, 32, 35, 36, 42, 43, 51, 52, 56, 66, 73, 76, 79, 80, 81, 85, 88, 101, 106, 108, 109, 113.





TABLE III  
DISTRIBUTION OF ITEM VALIDITY OF  
VERB RECALL

<u>Item</u>	Ninth Grade	Eleventh Grade	<u>Average</u>
	<u>Upper 50 &amp; Lower 50</u>	<u>Upper 50 &amp; Lower 50</u>	
1	12	16	14
2	42	26	34
3	48	48	48
4	6	12	9
5	46	44	45
6	2	10	6
7	32	42	37
8	0	16	8
9	14	22	18
10	0	16	8
11	50	20	35
12	42	22	32
13	34	20	27
14	8	18	13
15	2	20	11
16	40	42	41
17	56	32	44
18	0	6	3
19	26	28	27
20	22	20	21
21	50	58	54

1

2

3

## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
22	30	10	20
23	54	30	42
24	46	68	57
25	48	42	45
26	26	40	33
27	14	8	11
28	2	14	8
29	18	16	27
30	16	2	9
31	30	30	30
32	0	8	4
33	16	22	19
34	18	16	17
35	4	4	4
36	10	4	7
37	12	20	16
38	26	34	30
39	38	56	47
40	36	34	35
41	18	28	23
42	2	10	6
43	2	2	2
44	8	12	10
45	42	58	50



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
46	54	50	52
47	60	54	57
48	34	12	23
49	38	38	38
50	56	26	41
51	6	0	3
52	0	4	2
53	44	30	26.5
54	16	20	18
55	46	22	34
56	4	4	4
57	10	16	13
58	28	28	28
59	26	38	32
60	28	8	18
61	40	12	52
62	34	8	21
63	28	20	24
64	54	22	38
65	26	10	18
66	12	6	9
67	36	24	30
68	26	22	24
69	34	16	25



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
70	42	34	38
71	28	56	42
72	24	38	31
73	2	10	6
74	34	24	34
75	2	4	3
76	2	0	1
77	10	30	20
78	28	20	24
79	2	6	4
80	6	0	3
81	0	6	3
82	8	20	14
83	0	20	10
84	6	16	11
85	2	8	5
86	28	44	36
87	6	4	5
88	6	6	6
89	56	46	51
90	54	42	48
91	34	38	36
92	34	36	35
93	46	48	47



Date		Description	
1900	Jan	1	1
1900	Feb	2	2
1900	Mar	3	3
1900	Apr	4	4
1900	May	5	5
1900	Jun	6	6
1900	Jul	7	7
1900	Aug	8	8
1900	Sep	9	9
1900	Oct	10	10
1900	Nov	11	11
1900	Dec	12	12
1901	Jan	13	13
1901	Feb	14	14
1901	Mar	15	15
1901	Apr	16	16
1901	May	17	17
1901	Jun	18	18
1901	Jul	19	19
1901	Aug	20	20
1901	Sep	21	21
1901	Oct	22	22
1901	Nov	23	23
1901	Dec	24	24
1902	Jan	25	25
1902	Feb	26	26
1902	Mar	27	27
1902	Apr	28	28
1902	May	29	29
1902	Jun	30	30
1902	Jul	31	31
1902	Aug	32	32
1902	Sep	33	33
1902	Oct	34	34
1902	Nov	35	35
1902	Dec	36	36
1903	Jan	37	37
1903	Feb	38	38
1903	Mar	39	39
1903	Apr	40	40
1903	May	41	41
1903	Jun	42	42
1903	Jul	43	43
1903	Aug	44	44
1903	Sep	45	45
1903	Oct	46	46
1903	Nov	47	47
1903	Dec	48	48
1904	Jan	49	49
1904	Feb	50	50
1904	Mar	51	51
1904	Apr	52	52
1904	May	53	53
1904	Jun	54	54
1904	Jul	55	55
1904	Aug	56	56
1904	Sep	57	57
1904	Oct	58	58
1904	Nov	59	59
1904	Dec	60	60
1905	Jan	61	61
1905	Feb	62	62
1905	Mar	63	63
1905	Apr	64	64
1905	May	65	65
1905	Jun	66	66
1905	Jul	67	67
1905	Aug	68	68
1905	Sep	69	69
1905	Oct	70	70
1905	Nov	71	71
1905	Dec	72	72
1906	Jan	73	73
1906	Feb	74	74
1906	Mar	75	75
1906	Apr	76	76
1906	May	77	77
1906	Jun	78	78
1906	Jul	79	79
1906	Aug	80	80
1906	Sep	81	81
1906	Oct	82	82
1906	Nov	83	83
1906	Dec	84	84
1907	Jan	85	85
1907	Feb	86	86
1907	Mar	87	87
1907	Apr	88	88
1907	May	89	89
1907	Jun	90	90
1907	Jul	91	91
1907	Aug	92	92
1907	Sep	93	93
1907	Oct	94	94
1907	Nov	95	95
1907	Dec	96	96
1908	Jan	97	97
1908	Feb	98	98
1908	Mar	99	99
1908	Apr	100	100
1908	May	101	101
1908	Jun	102	102
1908	Jul	103	103
1908	Aug	104	104
1908	Sep	105	105
1908	Oct	106	106
1908	Nov	107	107
1908	Dec	108	108
1909	Jan	109	109
1909	Feb	110	110
1909	Mar	111	111
1909	Apr	112	112
1909	May	113	113
1909	Jun	114	114
1909	Jul	115	115
1909	Aug	116	116
1909	Sep	117	117
1909	Oct	118	118
1909	Nov	119	119
1909	Dec	120	120
1910	Jan	121	121
1910	Feb	122	122
1910	Mar	123	123
1910	Apr	124	124
1910	May	125	125
1910	Jun	126	126
1910	Jul	127	127
1910	Aug	128	128
1910	Sep	129	129
1910	Oct	130	130
1910	Nov	131	131
1910	Dec	132	132
1911	Jan	133	133
1911	Feb	134	134
1911	Mar	135	135
1911	Apr	136	136
1911	May	137	137
1911	Jun	138	138
1911	Jul	139	139
1911	Aug	140	140
1911	Sep	141	141
1911	Oct	142	142
1911	Nov	143	143
1911	Dec	144	144
1912	Jan	145	145
1912	Feb	146	146
1912	Mar	147	147
1912	Apr	148	148
1912	May	149	149
1912	Jun	150	150
1912	Jul	151	151
1912	Aug	152	152
1912	Sep	153	153
1912	Oct	154	154
1912	Nov	155	155
1912	Dec	156	156
1913	Jan	157	157
1913	Feb	158	158
1913	Mar	159	159
1913	Apr	160	160
1913	May	161	161
1913	Jun	162	162
1913	Jul	163	163
1913	Aug	164	164
1913	Sep	165	165
1913	Oct	166	166
1913	Nov	167	167
1913	Dec	168	168
1914	Jan	169	169
1914	Feb	170	170
1914	Mar	171	171
1914	Apr	172	172
1914	May	173	173
1914	Jun	174	174
1914	Jul	175	175
1914	Aug	176	176
1914	Sep	177	177
1914	Oct	178	178
1914	Nov	179	179
1914	Dec	180	180
1915	Jan	181	181
1915	Feb	182	182
1915	Mar	183	183
1915	Apr	184	184
1915	May	185	185
1915	Jun	186	186
1915	Jul	187	187
1915	Aug	188	188
1915	Sep	189	189
1915	Oct	190	190
1915	Nov	191	191
1915	Dec	192	192
1916	Jan	193	193
1916	Feb	194	194
1916	Mar	195	195
1916	Apr	196	196
1916	May	197	197
1916	Jun	198	198
1916	Jul	199	199
1916	Aug	200	200
1916	Sep	201	201
1916	Oct	202	202
1916	Nov	203	203
1916	Dec	204	204
1917	Jan	205	205
1917	Feb	206	206
1917	Mar	207	207
1917	Apr	208	208
1917	May	209	209
1917	Jun	210	210
1917	Jul	211	211
1917	Aug	212	212
1917	Sep	213	213
1917	Oct	214	214
1917	Nov	215	215
1917	Dec	216	216
1918	Jan	217	217
1918	Feb	218	218
1918	Mar	219	219
1918	Apr	220	220
1918	May	221	221
1918	Jun	222	222
1918	Jul	223	223
1918	Aug	224	224
1918	Sep	225	225
1918	Oct	226	226
1918	Nov	227	227
1918	Dec	228	228
1919	Jan	229	229
1919	Feb	230	230
1919	Mar	231	231
1919	Apr	232	232
1919	May	233	233
1919	Jun	234	234
1919	Jul	235	235
1919	Aug	236	236
1919	Sep	237	237
1919	Oct	238	238
1919	Nov	239	239
1919	Dec	240	240
1920	Jan	241	241
1920	Feb	242	242
1920	Mar	243	243
1920	Apr	244	244
1920	May	245	245
1920	Jun	246	246
1920	Jul	247	247
1920	Aug	248	248
1920	Sep	249	249
1920	Oct	250	250
1920	Nov	251	251
1920	Dec	252	252
1921	Jan	253	253
1921	Feb	254	254
1921	Mar	255	255
1921	Apr	256	256
1921	May	257	257
1921	Jun	258	258
1921	Jul	259	259
1921	Aug	260	260
1921	Sep	261	261
1921	Oct	262	262
1921	Nov	263	263
1921	Dec	264	264
1922	Jan	265	265
1922	Feb	266	266
1922	Mar	267	267
1922	Apr	268	268
1922	May	269	269
1922	Jun	270	270
1922	Jul	271	271
1922	Aug	272	272
1922	Sep	273	273
1922	Oct	274	274
1922	Nov	275	275
1922	Dec	276	276
1923	Jan	277	277
1923	Feb	278	278
1923	Mar	279	279
1923	Apr	280	280
1923	May	281	281
1923	Jun	282	282
1923	Jul	283	283
1923	Aug	284	284
1923	Sep	285	285
1923	Oct	286	286
1923	Nov	287	287
1923	Dec	288	288
1924	Jan	289	289
1924	Feb	290	290
1924	Mar	291	291
1924	Apr	292	292
1924	May	293	293
1924	Jun	294	294
1924	Jul	295	295
1924	Aug	296	296
1924	Sep	297	297
1924	Oct	298	298
1924	Nov	299	299
1924	Dec	300	300

## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
94	20	28	24
95	56	46	51
96	46	52	49
97	58	58	58
98	20	16	18
99	62	42	52
100	36	60	48
101	10	8	9
102	24	40	32
103	28	48	38
104	12	40	26
105	20	20	20
106	2	6	4
107	42	32	37
108	10	6	8
109	0	10	5
110	0	22	11
111	4	24	18
112	12	28	20
113	8	10	9
114	54	46	50
115	32	44	38
116	6	14	10



ANALYSIS OF TABLE II

VERBS

Purpose of this chart is to determine those items which are most difficult and those least difficult.

Good items: 2, 11, 13, 14, 62, 69, 70, 74, 89.

Poor items: 8, 10, 15, 18, 27, 28, 32, 35, 42, 43, 44, 51, 52, 56, 57, 66, 73, 79, 82, 83, 84, 85, 87, 88, 98, 101, 106, 108, 111, 113, 114, 116.



TABLE IV  
NUMBER OF PUPIL ATTEMPTS OF EACH ITEM OF  
VERB RECALL

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
1	60	75	67.5
2	75	81	78.
3	47	61	54.
4	28	47	37.5
5	39	65	52.
6	24	41	32.5
7	48	63	55.5
8	21	55	33.
9	29	54	41.5
10	24	47	35.5
11	83	92	87.5
12	86	93	89.5
13	84	87	85.5
14	31	42	36.5
15	23	34	28.5
16	63	75	69.
17	66	81	73.5
18	15	21	18.
19	40	52	46.
20	52	68	60.
21	60	75	67.5

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Page	Page	Page	Page
1	10	19	28
37	46	55	64
73	82	91	100
119	128	137	146
165	174	183	192
211	220	229	238
257	266	275	284
313	322	331	340
369	378	387	396
435	444	453	462
501	510	519	528
567	576	585	594
633	642	651	660
701	710	719	728
777	786	795	804
853	862	871	880
929	938	947	956
1001	1010	1019	1028
1077	1086	1095	1104
1153	1162	1171	1180
1237	1246	1255	1264
1321	1330	1339	1348
1405	1414	1423	1432
1497	1506	1515	1524
1589	1598	1607	1616
1681	1690	1699	1708
1773	1782	1791	1800
1865	1874	1883	1892
1957	1966	1975	1984
2049	2058	2067	2076
2137	2146	2155	2164
2221	2230	2239	2248
2313	2322	2331	2340
2405	2414	2423	2432
2501	2510	2519	2528
2597	2606	2615	2624
2701	2710	2719	2728
2801	2810	2819	2828
2901	2910	2919	2928
3001	3010	3019	3028
3101	3110	3119	3128
3201	3210	3219	3228
3301	3310	3319	3328
3401	3410	3419	3428
3501	3510	3519	3528
3601	3610	3619	3628
3701	3710	3719	3728
3801	3810	3819	3828
3901	3910	3919	3928
4001	4010	4019	4028
4101	4110	4119	4128
4201	4210	4219	4228
4301	4310	4319	4328
4401	4410	4419	4428
4501	4510	4519	4528
4601	4610	4619	4628
4701	4710	4719	4728
4801	4810	4819	4828
4901	4910	4919	4928
5001	5010	5019	5028
5101	5110	5119	5128
5201	5210	5219	5228
5301	5310	5319	5328
5401	5410	5419	5428
5501	5510	5519	5528
5601	5610	5619	5628
5701	5710	5719	5728
5801	5810	5819	5828
5901	5910	5919	5928
6001	6010	6019	6028
6101	6110	6119	6128
6201	6210	6219	6228
6301	6310	6319	6328
6401	6410	6419	6428
6501	6510	6519	6528
6601	6610	6619	6628
6701	6710	6719	6728
6801	6810	6819	6828
6901	6910	6919	6928
7001	7010	7019	7028
7101	7110	7119	7128
7201	7210	7219	7228
7301	7310	7319	7328
7401	7410	7419	7428
7501	7510	7519	7528
7601	7610	7619	7628
7701	7710	7719	7728
7801	7810	7819	7828
7901	7910	7919	7928
8001	8010	8019	8028
8101	8110	8119	8128
8201	8210	8219	8228
8301	8310	8319	8328
8401	8410	8419	8428
8501	8510	8519	8528
8601	8610	8619	8628
8701	8710	8719	8728
8801	8810	8819	8828
8901	8910	8919	8928
9001	9010	9019	9028
9101	9110	9119	9128
9201	9210	9219	9228
9301	9310	9319	9328
9401	9410	9419	9428
9501	9510	9519	9528
9601	9610	9619	9628
9701	9710	9719	9728
9801	9810	9819	9828
9901	9910	9919	9928
10001	10010	10019	10028

## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
22	77	92	84.5
23	72	75	73.5
24	51	72	61.5
25	58	71	64.5
26	44	71	62.5
27	37	53	45.
28	14	40	27.
29	63	77	70.
30	64	56	60.
31	41	43	42.
32	49	62	55.5
33	68	73	70.5
34	35	52	43.5
35	39	50	44.5
36	27	35	31.
37	32	46	39.
38	44	64	55.
39	59	71	64.
40	46	55	50.5
41	25	46	35.5
42	8	26	17.
43	18	30	24.
44	26	31	28.5



DATE	NAME	ADDRESS	CITY	STATE
1900	...	...	...	...
1901	...	...	...	...
1902	...	...	...	...
1903	...	...	...	...
1904	...	...	...	...
1905	...	...	...	...
1906	...	...	...	...
1907	...	...	...	...
1908	...	...	...	...
1909	...	...	...	...
1910	...	...	...	...
1911	...	...	...	...
1912	...	...	...	...
1913	...	...	...	...
1914	...	...	...	...
1915	...	...	...	...
1916	...	...	...	...
1917	...	...	...	...
1918	...	...	...	...
1919	...	...	...	...
1920	...	...	...	...
1921	...	...	...	...
1922	...	...	...	...
1923	...	...	...	...
1924	...	...	...	...
1925	...	...	...	...
1926	...	...	...	...
1927	...	...	...	...
1928	...	...	...	...
1929	...	...	...	...
1930	...	...	...	...
1931	...	...	...	...
1932	...	...	...	...
1933	...	...	...	...
1934	...	...	...	...
1935	...	...	...	...
1936	...	...	...	...
1937	...	...	...	...
1938	...	...	...	...
1939	...	...	...	...
1940	...	...	...	...
1941	...	...	...	...
1942	...	...	...	...
1943	...	...	...	...
1944	...	...	...	...
1945	...	...	...	...
1946	...	...	...	...
1947	...	...	...	...
1948	...	...	...	...
1949	...	...	...	...
1950	...	...	...	...
1951	...	...	...	...
1952	...	...	...	...
1953	...	...	...	...
1954	...	...	...	...
1955	...	...	...	...
1956	...	...	...	...
1957	...	...	...	...
1958	...	...	...	...
1959	...	...	...	...
1960	...	...	...	...
1961	...	...	...	...
1962	...	...	...	...
1963	...	...	...	...
1964	...	...	...	...
1965	...	...	...	...
1966	...	...	...	...
1967	...	...	...	...
1968	...	...	...	...
1969	...	...	...	...
1970	...	...	...	...
1971	...	...	...	...
1972	...	...	...	...
1973	...	...	...	...
1974	...	...	...	...
1975	...	...	...	...
1976	...	...	...	...
1977	...	...	...	...
1978	...	...	...	...
1979	...	...	...	...
1980	...	...	...	...
1981	...	...	...	...
1982	...	...	...	...
1983	...	...	...	...
1984	...	...	...	...
1985	...	...	...	...
1986	...	...	...	...
1987	...	...	...	...
1988	...	...	...	...
1989	...	...	...	...
1990	...	...	...	...
1991	...	...	...	...
1992	...	...	...	...
1993	...	...	...	...
1994	...	...	...	...
1995	...	...	...	...
1996	...	...	...	...
1997	...	...	...	...
1998	...	...	...	...
1999	...	...	...	...
2000	...	...	...	...

## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
45	52	72	62.
46	62	66	64.
47	80	84	82.
48	57	54	55.5
49	49	54	50.5
50	48	51	49.5
51	24	19	21.5
52	15	20	17.5
53	45	56	50.5
54	37	47	42.0
55	47	51	49.0
56	29	41	35.
57	38	41	39.5
58	25	53	39.
59	40	50	45.
60	65	68	66.5
61	84	96	90.
62	85	98	91.5
63	59	80	69.5
64	68	75	71.5
65	88	58	73.
66	60	67	63.5
67	49	71	60.
68	43	52	47.5



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
69	82	92	87.
70	84	90	87.
71	43	69	56.
72	42	49	45.5
73	23	40	31.5
74	76	87	81.5
75	19	26	22.5
76	31	42	36.5
77	21	38	29.5
78	28	32	30.00
79	32	30	31.00
80	23	26	24.5
81	31	46	38.1
82	12	29	15.5
83	29	51	40.
84	17	27	22.
85	34	36	35.
86	46	45	45.1
87	44	47	45.5
88	21	25	23.
89	78	83	80.5
90	73	71	72.
91	41	60	50.5



## VERB RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
92	60	64	62
93	58	57	57.5
94	40	47	43.5
95	69	74	71.5
96	53	56	54.5
97	55	56	55.5
98	33	42	37.5
99	55	52	53.5
100	42	51	46.5
101	29	32	30.5
102	22	32	27.
103	25	44	34.5
104	33	43	38.
105	36	39	37.5
106	22	26	24.
107	49	52	50.5
108	20	22	21.
109	15	27	21.
110	16	22	19.
111	15	15	15.
112	13	20	16.5
113	25	23	24.
114	52	52	52.
115	34	46	40.
116	30	23	26.5



TABLE V  
SUMMARY OF THE FOUR TABLES  
AVERAGE SCORE FOR VERBS

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
1	35.	2	14	67.5
2	70.	6	34	78.
3	43.	6	48	54.
4	11.5	9	9	37.5
5	37.5	11	45	52.
6	5.0	4	6	32.5
7	41.5	19	37	55.5
8	4	8	8	33.
9	14.0	10	18	41.5
10	6.0	12	8	35.5
11	75.5	13	35	87.5
12	64.0	22	32	89.5
13	73.5	5	27	85.5
14	75.0	7	13	36.5
15	5.5	9	11	28.5
16	56.5	13	41	69.
17	44.0	12	44	73.5
18	1.5	3	3	18.
19	17.5	9	27	46.
20	18.5	11	21	60.
21	48.	18	54	67.5





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AVERAGE SCORE FOR VERBS (cont.)

<u>Item</u>	<u>Item</u> <u>Difficulty</u>	<u>Discrimination</u> <u>Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
22	61.	12	20	84.5
23	48.	6	42	73.5
24	34.5	7	57	61.5
25	48.5	5	45	64.5
26	21.5	17	33	62.5
27	7.5	1	11	45.
28	4.0	6	8	27.
29	11.5	1	27	70.
30	9.5	-1	9	60.
31	17.	0	30	42.
32	2.	4	4	55.5
33	13.5	-5	19	70.5
34	13.5	9	17	43.5
35	3.	2	4	44.5
36	4.5	-1	7	31.
37	16.	4	16	39.
38	25.	8	30	55.
39	30.5	3	47	64.
40	26.5	1	35	50.5
41	15.5	13	23	35.5
42	4.	6	6	17.
43	1.	0	2	24.
44	7.	6	10	28.5
45	42.	22	50	62.



## AVERAGE SCORE FOR VERBS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
46	48.	2	52	64.
47	55.5	7	57	82.
48	27.5	1	23	55.5
49	23.	0	38	50.5
50	37.5	3	41	49.5
51	1.5	-3	3	21.5
52	1.	2	2	17.5
53	22.5	-11	26.5	50.5
54	12.	4	18	42.0
55	20.	-6	34.	49.
56	2.	0	4.	35.
57	7.5	5	13.	39.5
58	33.	30	28	39.
59	20.	2	32	45.
60	25.	2	18	66.5
61	59.	38	52	90.
62	88.5	15	21	91.5
63	40.	20	24	69.5
64	47.	12	38	71.5
65	23.	20	18	73.
66	8.5	5	9	63.5
67	46.0	24	30	60.
68	26.0	14	24	47.5
69	83.5	13	25	87.



## AVERAGE SCORE FOR VERBS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
70	78.	10	38	87.
71	29.	22	42	56.
72	19.	14	31	45.5
73	4.	6	6	31.5
74	75.5	9	34	81.5
75	1.5	1	3	22.5
76	.5	-1	1	36.5
77	12.0	14	20	29.5
78	17.0	6	24	30.0
79	3.	0	4	31.
80	2.5	-5	3	24.5
81	2.5	1	3	38.1
82	8.0	8	14	15.5
83	6.0	12	10	40.
84	5.5	5	11	22.
85	2.5	3	5	35.
86	30.	-4	36	45.1
87	2.5	-1	5	45.5
88	3.	0	6	23.
89	73.5	7	51	80.5
90	39.	8	48	72.
91	25.5	17	36	50.5
92	35.5	13	35	62.
93	46.5	-5	47	57.5



## AVERAGE SCORE FOR VERBS (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
94	16.0	8	24	43.5
95	61.5	3	51	71.5
96	27.5	-3	49	54.5
97	45.0	4	58	55.5
98	9.	-2	18	37.5
99	37.	0	52	53.5
100	29.	12	48	46.5
101	4.5	-1	9	30.5
102	16.0	8	32	27.
103	20.	12	38	34.5
104	14.	16	26	38.
105	13.	6	20	37.5
106	2.	2	4	24.
107	41.5	9	37	50.5
108	4.	-2	8	21.
109	2.5	5	5	19.
110	5.5	11	11	15.
111	7.	10	18	16.5
112	10.	8	20	24.
113	4.5	1	9	52.
114	4.1	-4	50	40.
115	31.	10	38	26.5
116	5.	4	10	





## ANALYSIS OF TABLE I

## ADJECTIVES

Purpose of this table is to determine those items discriminating between grades nine and eleven.

Good items; 9, 11, 16, 36, 46, 99.

Poor items: 3, 5, 12, 20, 23, 24, 25, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 54, 55, 56, 57, 58, 61, 62, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115.



TABLE I  
PER CENT OF CORRECT RESPONSES OF  
ADJECTIVE RECALL

<u>Item</u>	<u>Ninth Grade</u>		<u>Eleventh Grade</u>	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
1	8	4	42	0
2	24	0	26	18
3	0	0	6	2
4	6	2	28	8
5	0	0	4	2
6	0	0	22	4
7	6	0	36	0
8	10	0	42	6
9	68	10	84	26
10	2	0	48	0
11	72	20	82	38
12	0	0	12	0
13	46	12	78	14
14	0	0	38	0
15	32	0	80	8
16	60	18	70	34
17	16	2	40	6
18	8	0	28	4
19	4	0	46	8
20	2	0	6	0
21	46	6	76	34



## ADJECTIVE RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
22	2	0	34	6
23	0	0	10	0
24	8	0	10	0
25	2	0	8	0
26	38	8	64	20
27	14	0	6	0
28	0	0	0	0
29	14	2	34	26
30	36	6	60	12
31	10	0	26	2
32	28	4	30	6
33	32	0	36	6
34	2	0	2	4
35	90	48	86	62
36	60	8	66	12
37	12	0	12	6
38	26	12	32	10
39	10	2	14	2
40	40	6	64	8
41	30	0	30	6
42	0	0	4	0
43	2	0	6	0
44	6	0	14	0



## ADJECTIVE RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
45	2	0	8	2
46	94	52	94	58
47	22	6	12	0
48	32	0	40	2
49	2	0	0	0
50	4	0	0	2
51	2	0	0	0
52	2	0	0	0
53	22	0	38	8
54	8	0	8	8
55	0	0	6	2
56	0	0	2	2
57	0	0	0	0
58	2	0	2	0
59	8	0	28	4
60	38	0	52	24
61	2	0	0	0
62	4	0	0	4
63	56	12	70	28
64	20	2	20	2
65	36	2	32	14
66	2	0	8	0
67	22	4	28	0





## ADJECTIVE RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
68	18	4	34	2
69	0	0	6	0
70	2	0	6	0
71	14	0	12	2
72	2	0	6	0
73	0	0	8	0
74	4	0	12	2
75	2	0	8	6
76	0	0	2	2
77	0	0	0	0
78	2	0	4	0
79	2	0	2	0
80	0	0	0	2
81	0	0	6	2
82	8	0	4	6
83	8	0	14	0
84	0	0	10	0
85	0	0	2	0
86	0	0	6	0
87	32	0	36	0
88	14	0	22	2
89	6	0	6	4
90	0	0	6	0



ADJECTIVE RECALL (cont.)

<u>Item</u>	Ninth Grade		Eleventh Grade	
	<u>Upper 50</u>	<u>Lower 50</u>	<u>Upper 50</u>	<u>Lower 50</u>
91	0	0	2	2
92	0	0	6	2
93	0	0	2	0
94	0	0	0	0
95	8	0	8	0
96	6	0	4	0
97	6	0	20	0
98	0	0	2	2
99	72	24	58	34
100	2	2	8	0
101	36	2	50	14
102	2	0	8	0
103	4	0	14	0
104	0	0	2	0
105	4	0	18	0
106	4	0	8	0
107	2	0	0	0
108	0	0	4	0
109	64	12	52	26
110	0	0	6	2
111	24	2	20	8
112	0	0	12	0
113	2	0	4	2
114	24	2	10	4
115	12	0	6	2



## ANALYSIS OF TABLE II

## ADJECTIVES

Purpose of this table is to determine the difficulty of each item.

Good items: 11, 35, 26, 46,

Poor items: 3, 12, 20, 23, 24, 25, 27, 28, 34, 39,  
42, 43, 44, 45, 49, 51, 52, 55, 56, 57, 58, 61, 62,  
66, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,  
81, 82, 83, 84, 85, 86, 89, 90, 91, 92, 93, 94, 95,  
96, 97, 98, 100, 102, 103, 104, 105, 106, 107, 108,  
110, 112, 113, 115.



TABLE II  
DISTRIBUTION OF ITEM DIFFICULTY

<u>Item</u>	<u>ADJECTIVE RECALL</u>		<u>Average</u>	<u>Dif.Gr.</u>
	<u>Ninth Grade</u>	<u>Eleventh Grade</u>		<u>9 &amp; 11</u>
1	6	21	13.5	15
2	12	22	17.	10
3	0	4	2.	4
4	4	18	11.	14
5	0	3	1.5	3
6	0	13	6.5	13
7	3	18	10.5	15
8	5	24	14.5	19
9	39	55	47.	16
10	1	24	12.5	23
11	46	60	53.	14
12	0	6	3.	6
13	29	46	37.5	17
14	0	19	9.5	19
15	16	44	25.	28
16	39	52	45.5	13
17	9	23	16.	16
18	4	16	10.	12
19	2	27	14.5	25
20	1	3	4.	2
21	26	55	40.5	29
22	1	20	10.5	19





## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif. Gr. 9 &amp; 11</u>
23	0	5	2.5	5
24	4	5	4.5	1
25	1	4	2.5	3
26	23	42	32.5	19
27	7	3	5.	-4
28	0	0	0	0
29	8	30	19.	22
30	21	36	28.5	15
31	5	14	9.5	9
32	16	18	17.	2
33	16	21	18.5	5
34	1	3	2.	2
35	69	74	72.5	5
36	34	39	36.5	5
37	6	9	7.5	3
38	19	21	20.0	2
39	6	8	7.	2
40	23	36	29.5	13
41	15	18	16.5	3
42	0	2	1.	2
43	1	3	2.	2
44	3	7	5.	4
45	1	5	3.	4
46	73	76	74.5	3



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
47	14	6	10.	-8
48	16	21	18.5	5
49	1	0	.5	-1
50	2	1	1.5	-1
51	1	0	.5	-1
52	1	0	.5	-1
53	11	23	17.0	12
54	4	8	6.0	4
55	0	4	2.	4
56	0	2	1.	2
57	0	0	0.0	0
58	1	1	1.	0
59	4	16	10.	12
60	10	38	28.5	28
61	1	0	.5	-1
62	2	2	2.	0
63	34	49	41.5	15
64	11	11	11.	0
65	19	23	21.	4
66	1	4	2.5	3
67	13	14	13.5	1
68	11	18	14.5	7
69	0	3	1.5	3
70	1	3	2.	2



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ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
71	7	7	7.	0
72	1	3	2.	2
73	0	4	2.	4
74	2	7	4.5	5
75	1	7	4.	6
76	0	2	1.	2
77	0	0	0.	0
78	1	2	1.5	1
79	1	1	1.	0
80	0	1	.5	1
81	0	4	2.	4
82	4	5	4.5	1
83	4	7	5.5	3
84	0	5	2.5	5
85	0	1	.5	1
86	0	3	1.5	3
87	16	22	19.0	6
88	7	12	9.5	5
89	3	5	4.	2
90	0	3	1.5	3
91	0	2	1.	2
92	0	4	2.	4
93	0	1	.5	1



ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>	<u>Dif.Gr. 9 &amp; 11</u>
94	0	0	0	0
95	4	4	4.	0
96	3	2	2.5	-1
97	3	10	6.5	7
98	0	2	1.0	2
99	48	46	47.	-2
100	2	4	3.	2
101	19	32	25.5	13
102	1	4	2.5	3
103	2	7	4.5	5
104	0	1	.5	1
105	2	9	5.5	7
106	2	4	.3	2
107	1	0	.5	-1
108	0	2	1.	2
109	38	39	38.5	1
110	0	4	2.	4
111	13	14	13.5	1
112	0	6	3.0	6
113	1	3	4.0	2
114	13	7	10.0	-6
115	6	4	5.	-2





## ANALYSIS OF TABLE III

## ADJECTIVES

Purpose of Table III is to determine item validity.

These items received high validity score (above 25)

9, 10, 11, 13, 15, 16, 21, 26, 30, 33, 35, 36, 40, 46,  
48, 60, 63, 87, 99, 101, 109.

Items 3, 5, 6, 12, 20, 23, 24, 25, 28, 34, 37, 39,  
42, 43, 45, 49, 50, 51, 52, 54, 55, 56, 57, 58, 61,  
62, 66, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80,  
81, 82, 84, 85, 86, 89, 90, 91, 92, 93, 94, 95, 96,  
98, 100, 102, 103, 104, 106, 107, 108, 110, 112, 113,  
115, received scores of 10 to 0 - little if any  
validity.



TABLE III  
DISTRIBUTION OF ITEM VALIDITY OF  
ADJECTIVE RECALL

<u>Item</u>	<u>Upper 50. &amp; Lower 50 Ninth Grade</u>	<u>Upper 50 &amp; Lower 50 Eleventh Grade</u>	<u>Average</u>
1	4	42	23
2	24	8	16
3	0	4	2
4	4	20	12
5	0	2	1
6	0	18	9
7	6	36	21
8	10	36	23
9	58	58	58
10	2	48	25
11	52	44	48
12	0	12	6
13	34	64	49
14	0	38	19
15	32	72	52
16	42	36	39
17	14	34	24
18	8	24	16
19	4	38	21
20	2	6	4
21	40	42	41



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
22	2	28	15
23	0	10	5
24	8	10	9
25	2	8	5
26	30	44	37
27	14	6	10
28	0	0	0
29	12	8	10
30	30	48	39
31	10	24	17
32	24	24	24
33	32	30	31
34	2	2	2
35	42	24	33
36	52	54	53
37	12	6	9
38	14	22	18
39	8	12	10
40	34	56	45
41	30	24	27
42	0	4	2
43	2	6	4
44	6	14	10



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
45	2	6	4
46	42	36	39
47	16	12	14
48	32	38	35
49	2	0	1
50	4	2	3
51	2	0	1
52	2	0	1
53	22	30	26
54	8	0	4
55	0	4	2
56	0	0	0
57	0	0	0
58	2	2	2
59	8	24	16
60	38	28	33
61	2	0	1
62	4	4	4
63	44	42	43
64	18	18	18
65	34	18	26
66	2	8	5
67	18	28	23





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ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
68	14	32	18
69	0	6	3
70	2	6	4
71	14	10	12
72	2	6	4
73	0	8	4
74	4	10	7
75	2	2	2
76	0	0	0
77	0	0	0
78	2	4	3
79	2	2	2
80	0	2	1
81	0	4	2
82	8	2	5
83	8	14	11
84	0	10	5
85	0	2	1
86	0	6	3
87	30	28	30
88	14	20	17
89	6	2	4
90	0	6	3



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
91	0	0	0
92	0	4	2
93	0	2	1
94	0	0	0
95	8	8	8
96	6	4	5
97	6	20	13
98	0	0	0
99	38	24	31
100	0	8	4
101	34	36	35
102	2	8	5
103	4	14	9
104	0	2	1
105	4	18	11
106	4	8	6
107	2	0	1
108	0	4	2
109	52	26	39
110	0	4	2
111	22	18	20
112	0	12	6
113	2	2	2
114	22	6	14
115	12	4	8



ANALYSIS OF TABLE IV

ADJECTIVES

Purpose of this table is to determine those items receiving the greatest amount of response.

Good items: 1, 8, 9, 11, 13, 16, 21, 26, 38, 46, 63, 102, 99,

Poor items: 28, 44, 45, 51, 52, 55, 57, 61, 69, 71, 74, 77, 80, 85, 88, 91, 94, 95, 96, 98, 100, 104, 106, 112,



65

TABLE IV  
NUMBER OF PUPIL ATTEMPTS OF EACH ITEM OF  
ADJECTIVE RECALL

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
1	78	90	84.
2	44	70	57.
3	17	36	22.5
4	39	55	47.
5	18	39	28.5
6	23	49	36.
7	28	39	33.5
8	59	82	70.
9	68	78	73.
10	20	45	32.5
11	68	74	72.
12	21	39	30.
13	68	75	71.5
14	29	47	38.
15	36	57	46.5
16	56	72	64.
17	42	51	46.5
18	53	62	57.5
19	42	59	50.5
20	40	41	40.5
21	49	66	57.5
22	17	31	24.





ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
23	31	45	38.
24	22	41	31.5
25	25	35	30.
26	81	73	77.
27	38	36	37.
28	18	16	17.
29	31	63	47.
30	53	70	41.5
31	28	33	30.5
32	41	42	41.5
33	42	48	55.
34	31	31	31.
35	84	87	85.5
36	47	55	51.
37	54	54	54.
38	63	81	72.
39	48	49	48.5
40	44	63	53.5
41	37	37	37.
42	26	33	29.5
43	30	26	28.
44	23	27	25.
45	23	22	22.5
46	79	81	80.



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
47	30	30	30
48	30	36	33
49	16	11	13.5
50	32	40	36
51	9	11	10
52	18	21	19.5
53	57	56	56.5
54	43	40	41.5
55	21	22	21.5
56	29	25	27
57	10	14	12.
58	43	32	37/5
59	30	27	28.5
60	41	56	48.5
61	20	21	20.5
62	36	44	40.
63	59	62	60.5
64	38	39	38.5
65	35	33	34.
66	37	27	32.
67	40	32	36.
68	51	48	49.5
69	23	19	21.
70	34	31	32.5



00

ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
71	26	28	17.
72	33	28	25.5
73	19	29	24.
74	12	22	17.
75	43	40	41.5
76	39	19	29.
77	24	14	19.
78	25	22	23.5
79	15	13	14.
80	21	17	19.
81	33	30	31.5
82	21	22	21.5
83	39	23	31.
84	24	25	44.5
85	20	18	19.
86	24	20	22.
87	60	33	46.5
88	39	29	34.
89	29	16	22.5
90	23	18	20.5
91	11	22	16.5
92	32	19	25.5
93	35	24	29.5
94	15	7	11.



## ADJECTIVE RECALL (cont.)

<u>Item</u>	<u>Ninth Grade</u>	<u>Eleventh Grade</u>	<u>Average</u>
95	32	17	24.5
96	32	16	24.
97	36	34	35.
98	17	8	12.5
99	69	52	60.5
100	25	22	23.5
101	40	45	42.5
102	46	54	50.
103	24	31	32.5
104	11	14	12.5
105	33	26	29.5
106	18	17	17.5
107	31	26	33.5
108	27	30	28.5
109	50	53	51.5
110	32	25	28.5
111	37	33	35.
112	15	19	17.
113	28	35	31.5
114	41	35	38.0
115	43	41	42.





TABLE V  
SUMMARY OF THE FOUR TABLES  
AVERAGE SCORE FOR ADJECTIVES

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
1	13.5	15.	23	84
2	17.	10	16	57.
3	2.	4	2	22.5
4	11.	14	12	47.
5	1.5	3	1	28.5
6	6.5	13	9	36.
7	10.5	15	21	33.5
8	14.5	19	23	70.
9	47.	16	58	73.
10	12.5	23	25	32.5
11	53.	14	48	72.
12	3.	6	6	30.
13	37.5	17	49	71.5
14	9.5	19	19	38.
15	25.	28	52	46.5
16	45.5	13	39	64.
17	16.	16	24	46.5
18	10.	12	16	57.5
19	14.5	25	21	50.5
20	4.	2	4	40.5
21	40.5	29.	41	57.5
22	10.5	19	15	24.5



## AVERAGE SCORE FOR ADJECTIVES (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
23	2.5	5	5	38
24	4.5	1	9	31.5
25	2.5	3	5	30.
26	32.5	19	37	77.
27	5.	-4	10	37.
28	0.	0	0	17.
29	19	22	10	47.
30	28.5	15	39	41.5
31	9.5	9	17	30.5
32	17.	2	24	41.5
33	18.5	5	31	55.
34	2.	2	2	31.
35	72.5	5	33	85.5
36	36.5	5	53	51.
37	7.5	3	9	54.
38	20.0	2	18	72.
39	7.	2	10	48.5
40	29.5	13	45	53.5
41	16.5	3	27	37
42	1.	2	2	29.5
43	2.	2	4	28.
44	5.	4	10	25.
45	3.	4	4	22.5
46	74.5	3	39	80.



## AVERAGE SCORE FOR ADJECTIVES (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
47	10.	-8	14	30.
48	18.5	5	35	33.
49	.5	-1	1	13.5
50	1.5	-1	3	36.
51	.5	-1	1	10.
52	.5	-1	1	19.5
53	17.0	12	26	56.5
54	6.0	4	4	41.5
55	2.	4	2	21.5
56	1.	2	0	27.
57	0.0	0	0	12.
58	1.	0	2	37.5
59	10	12	16	28.5
60	28.5	28	33	48.5
61	.5	-1	1	20.5
62	2.	0	4	40.
63	41.5	15	43	60.5
64	11.	0	18	38.5
65	21.	4	26	34.
66	2.5	3	5	32.
67	13.5	1	23	36.
68	14.5	7	18	49.5
69	1.5	3	3	21.
70	2.	2	4	32.5



## AVERAGE SCORE FOR ADJECTIVES (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
71	7.	0	12	17.
72	2.	2	4	25.5
73	2.	4	4	24.
74	4.5	5	7	17.
75	4.	6	2	41.5
76	1.	2	0	29.
77	0.	0	0	19.
78	1.5	1	3	23.5
79	1.	0	2	14.
80	.5	1	1	19.
81	2.	4	2	31.5
82	4.5	1	5	21.5
83	5.5	3	11	31.
84	2.5	5.	5	44.5
85	.5	1	1	19.
86	1.5	3	3	22.
87	19.0	6	30	46.5
88	9.5	5	17	34.
89	4.	2	4	22.5
90	1.5	3	3	20.5
91	1.0	2	0	16.5
92	2.	4	2	25.5
93	.5	1	1	29.5
94	0.	0	0	11.





## AVERAGE SCORE FOR ADJECTIVES (cont.)

<u>Item</u>	<u>Item Difficulty</u>	<u>Discrimination Grades 9 &amp; 11</u>	<u>Validity</u>	<u>Attempts</u>
95	4.	0	8	24.5
96	2.5	-1	5	24.0
97	6.5	7	13	35.
98	1.0	2	0	12.5
99	47.	-2	31	60.5
100	3.	2	4	23.5
101	25.5	13	35	42.5
102	2.5	3	5	50.
103	4.5	5	9	32.5
104	.5	1	1	12.5
105	5.5	7	11	29.5
106	.3	2	6	17.5
107	.5	-1	1	33.5
108	1.0	2	2	28.5
109	38.5	1	39	51.5
110	2.	4	2	28.5
111	13.5	1	20	35.
112	3.0	6	6	17.
113	4.	2	2	31.5
114	10.0	-6	14	38.0
115	5.	-2	8	42.



CHAPTER III  
SUMMARY AND CONCLUSIONS



### CHAPTER III

#### SUMMARY AND CONCLUSIONS

This study was an item analysis of written recall phase of the Hurlburt test involving nouns, verbs, and adjectives.

Table V after each analysis shows item difficulty, item discrimination for grades nine and eleven, item validity, and number of attempts, whether right or wrong, made by each pupil.

From this analysis shows a growth of vocabulary meaning from the ninth grade to the eleventh grade. This analysis revealed the fact that meaning of adjectives was very low in grade discrimination, validity, yet very high in attempts.



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APPENDIX



TABLE I

<u>ADJECTIVE RECALL</u>		<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
Correct	Wrong	Blank	
1	4	39	7
2	12	16	22
3	00	12	38
4	3	18	29
5	00	6	44
6	00	16	34
7	3	12	35
8	5	29	16
9	34	8	8
10	1	7	42
11	36	9	5
12	00	11	39
13	23	19	8
14	00	14	36
15	16	10	24
16	30	6	14
17	8	17	25
18	4	30	16
19	2	27	21
20	1	28	21
21	23	10	17
22	1	8	41



Table I (cont.)

<u>ADJECTIVE RECALL</u>		<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
Correct	Wrong	Blank	
23	00	22	28
24	4	12	34
25	1	16	33
26	19	21	10
27	7	18	25
28	00	13	37
29	7	18	25
30	18	13	19
31	5	11	34
32	14	15	21
33	16	13	21
34	1	19	30
35	45	3	2
36	30	9	11
37	6	25	19
38	13	22	15
39	5	30	15
40	20	13	17
41	15	13	22
42	00	20	30
43	1	18	31
44	3	14	33





TABLE I (cont.)

	<u>ADJECTIVE RECALL</u>		<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
45	1	12	37	
46	47	2	1	
47	11	10	29	
48	16	10	24	
49	1	10	39	
50	2	22	26	
51	1	4	45	
52	1	13	36	
53	11	24	15	
54	4	24	22	
55	00	13	37	
56	00	16	34	
57	00	5	45	
58	1	22	27	
59	4	17	29	
60	19	15	16	
61	1	16	33	
62	2	21	27	
63	28	10	12	
64	10	15	25	
65	18	10	22	
66	1	31	18	

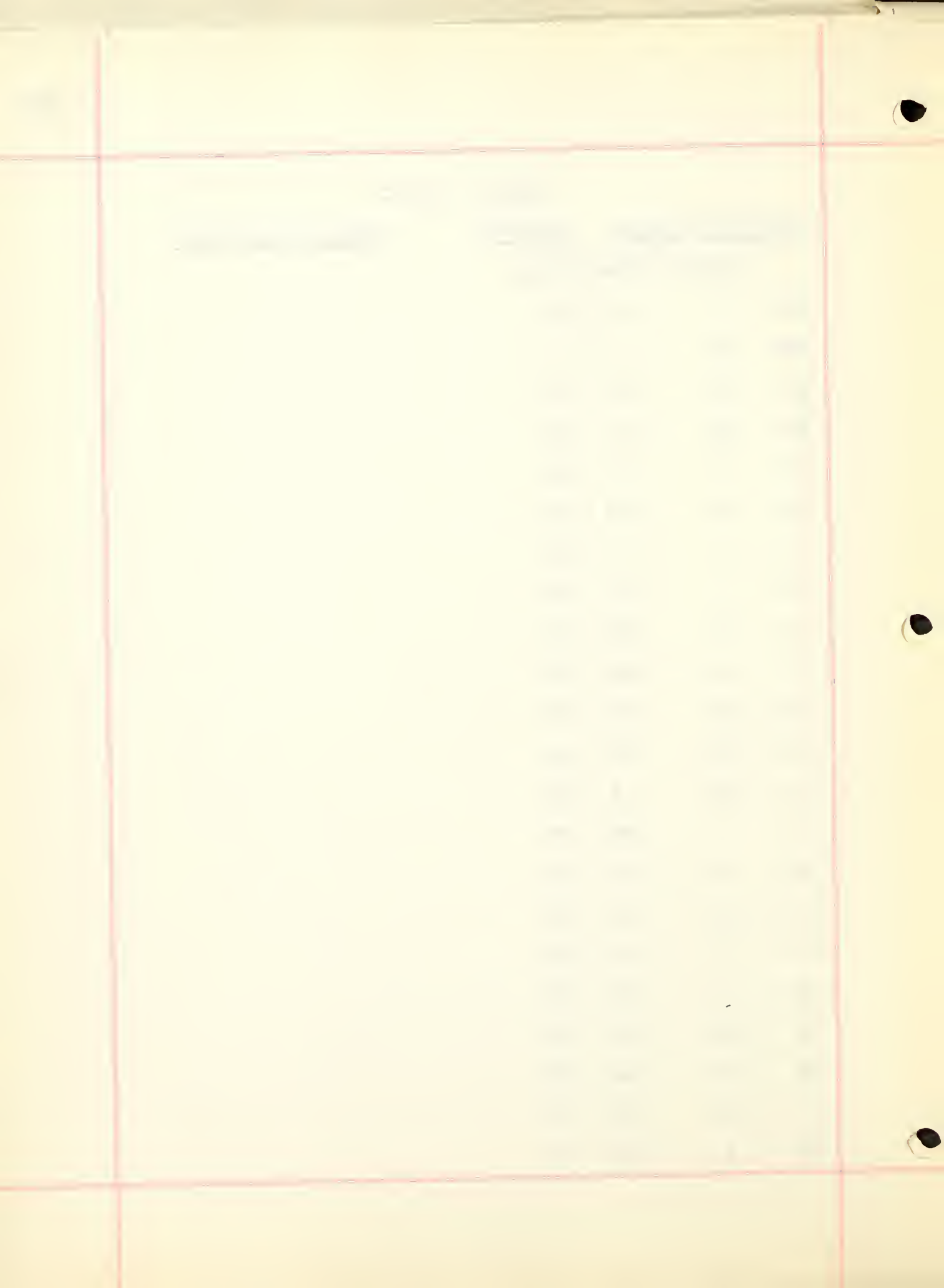


TABLE I (cont.)

<u>ADJECTIVE RECALL</u>	<u>FRESHMEN</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
67	11	16	23	
68	9	20	21	
69	00	16	34	
70	1	23	26	
71	7	12	31	
72	1	23	26	
73	00	12	38	
74	2	8	40	
75	1	31	18	
76	00	26	24	
77	00	17	33	
78	1	17	32	
79	1	10	39	
80	00	16	34	
81	00	23	27	
82	4	12	34	
83	4	21	25	
84	00	18	32	
85	00	14	36	
86	00	17	33	
87	16	24	10	
88	7	24	19	



TABLE I (cont.)

ADJECTIVE RECALL	FRESHMEN			Upper Fifty Cases
	Correct	Wrong	Blank	
89	3	18	29	
90	00	18	32	
91	00	9	41	
92	00	21	29	
93	00	23	27	
94	00	13	37	
95	4	17	29	
96	3	18	29	
97	3	22	25	
98	00	11	39	
99	36	10	4	
100	1	16	33	
101	18	11	21	
102	1	33	16	
103	2	13	35	
104	00	9	41	
105	2	13	35	
106	2	9	39	
107	1	23	26	
108	00	14	36	
109	32	5	13	
110	00	17	33	



TABLE I (cont.)

<u>ADJECTIVE</u> <u>RECALL</u>	<u>FRESHMEN</u>			<u>Upper</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
111	12	16	22	
112	00	11	39	
113	1	15	34	
114	12	14	24	
115	6	22	22	





TABLE II

	<u>ADJECTIVE RECALL</u>		<u>FRESH EN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
1	2	33	15	
2	00	16	34	
3	00	5	45	
4	1	17	32	
5	00	12	38	
6	00	7	43	
7	00	13	37	
8	00	25	25	
9	5	16	29	
10	00	12	38	
11	10	13	27	
12	00	10	40	
13	6	20	24	
14	00	15	35	
15	00	10	40	
16	9	11	30	
17	1	16	33	
18	00	19	31	
19	00	13	37	
20	00	11	29	
21	3	13	34	
22	00	8	42	



TABLE II (cont.)

<u>ADJECTIVE RECALL</u>	<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>	
	Correct	Wrong	Blank
23	00	9	31
24	00	6	44
25	00	8	42
26	4	27	19
27	00	13	37
28	00	5	45
29	1	15	34
30	3	19	28
31	00	12	38
32	2	10	38
33	00	13	37
34	00	11	39
35	24	12	14
36	4	14	32
37	00	23	27
38	6	22	22
39	1	12	37
40	3	8	39
41	00	9	41
42	00	6	44
43	00	11	39
44	00	6	44



TABLE II (cont.)

<u>ADJECTIVE RECALL</u>	<u>FRESHMEN</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
45	00	10	40	
46	26	4	20	
47	3	6	41	
48	00	4	46	
49	00	5	45	
50	00	8	42	
51	00	4	46	
52	00	9	41	
53	00	22	28	
54	00	15	35	
55	00	8	42	
56	00	13	37	
57	00	5	45	
58	00	20	30	
59	00	9	41	
60	00	7	43	
61	00	3	47	
62	00	13	37	
63	6	15	29	
64	1	12	37	
65	1	6	43	
66	00	5	45	

Date		Description		Amount	
Month	Day	Particulars	Debit	Credit	Balance
Jan	1	Balance b/d			
Jan	2	By Cash			
Jan	3	To Cash			
Jan	4	By Cash			
Jan	5	To Cash			
Jan	6	By Cash			
Jan	7	To Cash			
Jan	8	By Cash			
Jan	9	To Cash			
Jan	10	By Cash			
Jan	11	To Cash			
Jan	12	By Cash			
Jan	13	To Cash			
Jan	14	By Cash			
Jan	15	To Cash			
Jan	16	By Cash			
Jan	17	To Cash			
Jan	18	By Cash			
Jan	19	To Cash			
Jan	20	By Cash			
Jan	21	To Cash			
Jan	22	By Cash			
Jan	23	To Cash			
Jan	24	By Cash			
Jan	25	To Cash			
Jan	26	By Cash			
Jan	27	To Cash			
Jan	28	By Cash			
Jan	29	To Cash			
Jan	30	By Cash			
Jan	31	To Cash			
Feb	1	By Cash			
Feb	2	To Cash			
Feb	3	By Cash			
Feb	4	To Cash			
Feb	5	By Cash			
Feb	6	To Cash			
Feb	7	By Cash			
Feb	8	To Cash			
Feb	9	By Cash			
Feb	10	To Cash			
Feb	11	By Cash			
Feb	12	To Cash			
Feb	13	By Cash			
Feb	14	To Cash			
Feb	15	By Cash			
Feb	16	To Cash			
Feb	17	By Cash			
Feb	18	To Cash			
Feb	19	By Cash			
Feb	20	To Cash			
Feb	21	By Cash			
Feb	22	To Cash			
Feb	23	By Cash			
Feb	24	To Cash			
Feb	25	By Cash			
Feb	26	To Cash			
Feb	27	By Cash			
Feb	28	To Cash			
Feb	29	By Cash			
Feb	30	To Cash			
Feb	31	By Cash			

TABLE II (cont.)

	<u>ADJECTIVE RECALL</u>	<u>FRESHMEN</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
67	2	11	37	
68	2	20	28	
69	00	7	43	
70	00	10	40	
71	00	7	43	
72	00	9	41	
73	00	7	43	
74	00	2	48	
75	00	11	39	
76	00	13	37	
77	00	7	43	
78	00	7	43	
79	00	4	46	
80	00	5	45	
81	00	10	40	
82	00	5	45	
83	00	14	36	
84	00	6	44	
85	00	6	44	
86	00	7	43	
87	00	20	30	
88	00	8	42	





TABLE II (cont.)

	<u>ADJECTIVE RECALL</u>		<u>FRESHMEN</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank		
89	00	8	42		
90	00	5	45		
91	00	2	<b>48</b>		
92	00	11	39		
93	00	12	38		
94	00	2	48		
95	00	11	39		
96	00	11	39		
97	00	11	39		
98	00	6	44		
99	12	11	27		
100	1	7	42		
101	1	10	39		
102	00	12	38		
103	00	9	41		
104	00	2	48		
105	00	8	42		
106	00	7	43		
107	00	7	43		
108	00	13	37		
109	6	7	37		
110	00	15	35		



TABLE II (cont.)

<u>ADJECTIVE</u> <u>RECALL</u>	<u>FRESHMEN</u>			<u>Lower</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
111	1	8	41	
112	00	4	46	
113	00	12	38	
114	1	14	35	
115	00	15	35	

Table 1			
Year	1990	1995	2000
1990	100	100	100
1991	100	100	100
1992	100	100	100
1993	100	100	100
1994	100	100	100
1995	100	100	100
1996	100	100	100
1997	100	100	100
1998	100	100	100
1999	100	100	100
2000	100	100	100

TABLE III

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
1	21	26	3	
2	13	24	13	
3	3	22	25	
4	14	22	14	
5	2	24	24	
6	11	20	19	
7	18	15	17	
8	21	25	4	
9	42	6	2	
10	24	7	19	
11	41	3	6	
12	6	25	19	
13	39	6	5	
14	19	15	16	
15	40	3	7	
16	35	5	10	
17	20	11	19	
18	14	21	15	
19	23	15	12	
20	3	23	24	
21	38	4	8	
22	17	6	27	



TABLE III (cont.)

<u>ADJECTIVE</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
23	5	24	21
24	5	26	19
25	4	25	21
26	32	11	7
27	3	18	29
28	00	8	42
29	17	22	11
30	30	12	8
31	13	10	27
32	15	13	22
33	18	17	15
34	1	17	32
35	43	5	2
36	33	13	4
37	6	25	19
38	16	26	8
39	7	25	18
40	32	9	9
41	15	14	21
42	2	17	31
43	3	16	31
44	7	13	30



TABLE I			
Summary of the results of the experiments			
Experiment	Time (min)	Temperature (°C)	Yield (%)
1	10	100	100
2	20	100	100
3	30	100	100
4	40	100	100
5	50	100	100
6	60	100	100
7	70	100	100
8	80	100	100
9	90	100	100
10	100	100	100
11	110	100	100
12	120	100	100
13	130	100	100
14	140	100	100
15	150	100	100
16	160	100	100
17	170	100	100
18	180	100	100
19	190	100	100
20	200	100	100
21	210	100	100
22	220	100	100
23	230	100	100
24	240	100	100
25	250	100	100
26	260	100	100
27	270	100	100
28	280	100	100
29	290	100	100
30	300	100	100
31	310	100	100
32	320	100	100
33	330	100	100
34	340	100	100
35	350	100	100
36	360	100	100
37	370	100	100
38	380	100	100
39	390	100	100
40	400	100	100
41	410	100	100
42	420	100	100
43	430	100	100
44	440	100	100
45	450	100	100
46	460	100	100
47	470	100	100
48	480	100	100
49	490	100	100
50	500	100	100
51	510	100	100
52	520	100	100
53	530	100	100
54	540	100	100
55	550	100	100
56	560	100	100
57	570	100	100
58	580	100	100
59	590	100	100
60	600	100	100
61	610	100	100
62	620	100	100
63	630	100	100
64	640	100	100
65	650	100	100
66	660	100	100
67	670	100	100
68	680	100	100
69	690	100	100
70	700	100	100
71	710	100	100
72	720	100	100
73	730	100	100
74	740	100	100
75	750	100	100
76	760	100	100
77	770	100	100
78	780	100	100
79	790	100	100
80	800	100	100
81	810	100	100
82	820	100	100
83	830	100	100
84	840	100	100
85	850	100	100
86	860	100	100
87	870	100	100
88	880	100	100
89	890	100	100
90	900	100	100
91	910	100	100
92	920	100	100
93	930	100	100
94	940	100	100
95	950	100	100
96	960	100	100
97	970	100	100
98	980	100	100
99	990	100	100
100	1000	100	100

TABLE III (cont.)

	<u>ADJECTIVE RECALL</u>		<u>JUNIOR CLASS</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
45	4	19	27	
46	47	2	1	
47	6	13	31	
48	20	10	20	
49	00	5	45	
50	00	27	23	
51	00	6	44	
52	00	12	38	
53	19	13	18	
54	4	17	29	
55	3	11	36	
56	1	15	34	
57	00	10	40	
58	1	24	25	
59	14	6	30	
60	26	9	15	
61	00	13	37	
62	00	28	22	
63	35	8	7	
64	10	16	24	
65	16	5	29	
66	4	15	31	



TABLE III (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
67	14	11	25	
68	17	14	19	
69	3	6	41	
70	3	14	33	
71	6	10	34	
72	3	10	37	
73	4	10	36	
74	6	11	33	
75	4	22	24	
76	1	10	39	
77	00	7	43	
78	2	12	36	
79	1	8	41	
80	00	11	39	
81	3	21	26	
82	2	13	35	
83	7	8	35	
84	5	11	34	
85	1	14	35	
86	3	12	35	
87	18	6	26	
88	11	7	32	



TABLE III (cont.)

	<u>ADJECTIVE RECALL</u>		<u>JUNIOR CLASS</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
89	3	7	40	
90	3	9	38	
91	1	11	38	
92	3	8	39	
93	1	11	38	
94	00	5	45	
95	4	8	38	
96	2	8	40	
97	10	13	27	
98	1	2	47	
99	29	11	10	
100	4	11	35	
101	25	6	19	
102	4	29	17	
103	7	13	30	
104	1	10	39	
105	9	9	32	
106	4	8	38	
107	00	16	34	
108	2	14	34	
109	26	7	17	
110	3	9	38	

TABLE 1			
Summary of the results of the analysis of variance for the effect of the treatment on the yield of the different components of the plant			
Treatment	Yield of the plant (g)	Yield of the roots (g)	Yield of the leaves (g)
Control	100	10	90
1	100	10	90
2	100	10	90
3	100	10	90
4	100	10	90
5	100	10	90
6	100	10	90
7	100	10	90
8	100	10	90
9	100	10	90
10	100	10	90
11	100	10	90
12	100	10	90
13	100	10	90
14	100	10	90
15	100	10	90
16	100	10	90
17	100	10	90
18	100	10	90
19	100	10	90
20	100	10	90
21	100	10	90
22	100	10	90
23	100	10	90
24	100	10	90
25	100	10	90
26	100	10	90
27	100	10	90
28	100	10	90
29	100	10	90
30	100	10	90
31	100	10	90
32	100	10	90
33	100	10	90
34	100	10	90
35	100	10	90
36	100	10	90
37	100	10	90
38	100	10	90
39	100	10	90
40	100	10	90
41	100	10	90
42	100	10	90
43	100	10	90
44	100	10	90
45	100	10	90
46	100	10	90
47	100	10	90
48	100	10	90
49	100	10	90
50	100	10	90
51	100	10	90
52	100	10	90
53	100	10	90
54	100	10	90
55	100	10	90
56	100	10	90
57	100	10	90
58	100	10	90
59	100	10	90
60	100	10	90
61	100	10	90
62	100	10	90
63	100	10	90
64	100	10	90
65	100	10	90
66	100	10	90
67	100	10	90
68	100	10	90
69	100	10	90
70	100	10	90
71	100	10	90
72	100	10	90
73	100	10	90
74	100	10	90
75	100	10	90
76	100	10	90
77	100	10	90
78	100	10	90
79	100	10	90
80	100	10	90
81	100	10	90
82	100	10	90
83	100	10	90
84	100	10	90
85	100	10	90
86	100	10	90
87	100	10	90
88	100	10	90
89	100	10	90
90	100	10	90
91	100	10	90
92	100	10	90
93	100	10	90
94	100	10	90
95	100	10	90
96	100	10	90
97	100	10	90
98	100	10	90
99	100	10	90
100	100	10	90

TABLE III (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
111	10	9	31	
112	6	5	39	
113	2	18	30	
114	5	14	31	
115	3	18	29	



TABLE I			
Summary of the results of the experiments			
Experiment	Time (min)	Distance (m)	Speed (m/min)
1	10	1.0	0.1
2	20	2.0	0.1
3	30	3.0	0.1
4	40	4.0	0.1
5	50	5.0	0.1
6	60	6.0	0.1
7	70	7.0	0.1
8	80	8.0	0.1
9	90	9.0	0.1
10	100	10.0	0.1

TABLE IV

<u>ADJECTIVE RECALL</u>		<u>JUNIOR CLASS</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
1	00	43	7
2	9	24	17
3	1	10	39
4	4	15	31
5	1	12	37
6	2	12	36
7	00	16	34
8	3	33	14
9	13	17	20
10	00	14	36
11	19	11	20
12	00	8	42
13	7	23	20
14	00	13	37
15	4	10	36
16	17	15	18
17	3	17	30
18	2	25	23
19	4	17	29
20	00	15	35
21	17	8	25
22	3	5	42

Table 1: Summary of Data			
Category	Sub-category	Value 1	Value 2
Group A	Item 1	100	200
	Item 2	150	300
	Item 3	200	400
	Item 4	250	500
	Item 5	300	600
	Item 6	350	700
	Item 7	400	800
	Item 8	450	900
	Item 9	500	1000
	Item 10	550	1100
Group B	Item 1	120	240
	Item 2	180	360
	Item 3	240	480
	Item 4	300	600
	Item 5	360	720
	Item 6	420	840
	Item 7	480	960
	Item 8	540	1080
	Item 9	600	1200
	Item 10	660	1320
Group C	Item 1	140	280
	Item 2	210	420
	Item 3	280	560
	Item 4	350	700
	Item 5	420	840
	Item 6	490	980
	Item 7	560	1120
	Item 8	630	1260
	Item 9	700	1400
	Item 10	770	1540

TABLE IV (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
23	00	16	34	
24	00	10	40	
25	00	6	44	
26	10	20	20	
27	00	15	35	
28	00	8	42	
29	13	11	26	
30	6	22	22	
31	1	9	40	
32	3	11	36	
33	3	10	37	
34	2	11	37	
35	31	8	11	
36	6	17	27	
37	3	20	27	
38	5	24	21	
39	1	16	33	
40	4	8	38	
41	3	5	42	
42	00	14	36	
43	00	7	43	
44	00	7	43	



TABLE IV (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
45	1	8	41	
46	29	3	18	
47	00	11	39	
48	1	5	44	
49	00	6	44	
50	1	12	37	
51	00	5	45	
52	00	9	41	
53	4	20	26	
54	4	15	31	
55	1	7	42	
56	1	8	41	
57	00	4	46	
58	00	7	43	
59	2	5	43	
60	12	9	29	
61	00	8	42	
62	2	14	34	
63	14	5	31	
64	1	12	37	
65	7	5	38	
66	00	14	36	



TABLE IV (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
67	00	8	42	
68	1	16	33	
69	00	10	40	
70	00	14	36	
71	1	11	38	
72	00	15	35	
73	00	15	35	
74	1	4	45	
75	3	11	36	
76	1	7	42	
77	00	7	43	
78	00	8	42	
79	00	4	46	
80	1	5	44	
81	1	18	31	
82	3	4	43	
83	00	8	42	
84	00	9	41	
85	00	3	47	
86	00	5	45	
87	4	15	31	
88	1	10	39	



General Information			Financial Data		Operational Data	
Item No.	Description	Unit	Cost	Revenue	Quantity	Value
1	...	...	...	...	...	...
2	...	...	...	...	...	...
3	...	...	...	...	...	...
4	...	...	...	...	...	...
5	...	...	...	...	...	...
6	...	...	...	...	...	...
7	...	...	...	...	...	...
8	...	...	...	...	...	...
9	...	...	...	...	...	...
10	...	...	...	...	...	...
11	...	...	...	...	...	...
12	...	...	...	...	...	...
13	...	...	...	...	...	...
14	...	...	...	...	...	...
15	...	...	...	...	...	...
16	...	...	...	...	...	...
17	...	...	...	...	...	...
18	...	...	...	...	...	...
19	...	...	...	...	...	...
20	...	...	...	...	...	...
21	...	...	...	...	...	...
22	...	...	...	...	...	...
23	...	...	...	...	...	...
24	...	...	...	...	...	...
25	...	...	...	...	...	...
26	...	...	...	...	...	...
27	...	...	...	...	...	...
28	...	...	...	...	...	...
29	...	...	...	...	...	...
30	...	...	...	...	...	...
31	...	...	...	...	...	...
32	...	...	...	...	...	...
33	...	...	...	...	...	...
34	...	...	...	...	...	...
35	...	...	...	...	...	...
36	...	...	...	...	...	...
37	...	...	...	...	...	...
38	...	...	...	...	...	...
39	...	...	...	...	...	...
40	...	...	...	...	...	...
41	...	...	...	...	...	...
42	...	...	...	...	...	...
43	...	...	...	...	...	...
44	...	...	...	...	...	...
45	...	...	...	...	...	...
46	...	...	...	...	...	...
47	...	...	...	...	...	...
48	...	...	...	...	...	...
49	...	...	...	...	...	...
50	...	...	...	...	...	...
51	...	...	...	...	...	...
52	...	...	...	...	...	...
53	...	...	...	...	...	...
54	...	...	...	...	...	...
55	...	...	...	...	...	...
56	...	...	...	...	...	...
57	...	...	...	...	...	...
58	...	...	...	...	...	...
59	...	...	...	...	...	...
60	...	...	...	...	...	...
61	...	...	...	...	...	...
62	...	...	...	...	...	...
63	...	...	...	...	...	...
64	...	...	...	...	...	...
65	...	...	...	...	...	...
66	...	...	...	...	...	...
67	...	...	...	...	...	...
68	...	...	...	...	...	...
69	...	...	...	...	...	...
70	...	...	...	...	...	...
71	...	...	...	...	...	...
72	...	...	...	...	...	...
73	...	...	...	...	...	...
74	...	...	...	...	...	...
75	...	...	...	...	...	...
76	...	...	...	...	...	...
77	...	...	...	...	...	...
78	...	...	...	...	...	...
79	...	...	...	...	...	...
80	...	...	...	...	...	...
81	...	...	...	...	...	...
82	...	...	...	...	...	...
83	...	...	...	...	...	...
84	...	...	...	...	...	...
85	...	...	...	...	...	...
86	...	...	...	...	...	...
87	...	...	...	...	...	...
88	...	...	...	...	...	...
89	...	...	...	...	...	...
90	...	...	...	...	...	...
91	...	...	...	...	...	...
92	...	...	...	...	...	...
93	...	...	...	...	...	...
94	...	...	...	...	...	...
95	...	...	...	...	...	...
96	...	...	...	...	...	...
97	...	...	...	...	...	...
98	...	...	...	...	...	...
99	...	...	...	...	...	...
100	...	...	...	...	...	...

TABLE IV (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u> <u>Lower Fifty Cases</u>		
	Correct	Wrong	Blank
89	2	4	44
90	00	6	44
91	1	9	40
92	1	7	42
93	00	13	37
94	00	2	48
95	00	5	45
96	00	6	44
97	00	11	39
98	1	4	45
99	17	5	28
100	00	8	42
101	7	7	36
102	00	21	29
103	00	11	39
104	00	3	47
105	00	8	42
106	00	5	45
107	00	10	40
108	00	14	36
109	13	7	30
110	1	12	37

TABLE I		TABLE II	
Year	Value	Year	Value
1900	100	1900	100
1901	105	1901	105
1902	110	1902	110
1903	115	1903	115
1904	120	1904	120
1905	125	1905	125
1906	130	1906	130
1907	135	1907	135
1908	140	1908	140
1909	145	1909	145
1910	150	1910	150
1911	155	1911	155
1912	160	1912	160
1913	165	1913	165
1914	170	1914	170
1915	175	1915	175
1916	180	1916	180
1917	185	1917	185
1918	190	1918	190
1919	195	1919	195
1920	200	1920	200
1921	205	1921	205
1922	210	1922	210
1923	215	1923	215
1924	220	1924	220
1925	225	1925	225
1926	230	1926	230
1927	235	1927	235
1928	240	1928	240
1929	245	1929	245
1930	250	1930	250
1931	255	1931	255
1932	260	1932	260
1933	265	1933	265
1934	270	1934	270
1935	275	1935	275
1936	280	1936	280
1937	285	1937	285
1938	290	1938	290
1939	295	1939	295
1940	300	1940	300
1941	305	1941	305
1942	310	1942	310
1943	315	1943	315
1944	320	1944	320
1945	325	1945	325
1946	330	1946	330
1947	335	1947	335
1948	340	1948	340
1949	345	1949	345
1950	350	1950	350
1951	355	1951	355
1952	360	1952	360
1953	365	1953	365
1954	370	1954	370
1955	375	1955	375
1956	380	1956	380
1957	385	1957	385
1958	390	1958	390
1959	395	1959	395
1960	400	1960	400
1961	405	1961	405
1962	410	1962	410
1963	415	1963	415
1964	420	1964	420
1965	425	1965	425
1966	430	1966	430
1967	435	1967	435
1968	440	1968	440
1969	445	1969	445
1970	450	1970	450
1971	455	1971	455
1972	460	1972	460
1973	465	1973	465
1974	470	1974	470
1975	475	1975	475
1976	480	1976	480
1977	485	1977	485
1978	490	1978	490
1979	495	1979	495
1980	500	1980	500
1981	505	1981	505
1982	510	1982	510
1983	515	1983	515
1984	520	1984	520
1985	525	1985	525
1986	530	1986	530
1987	535	1987	535
1988	540	1988	540
1989	545	1989	545
1990	550	1990	550
1991	555	1991	555
1992	560	1992	560
1993	565	1993	565
1994	570	1994	570
1995	575	1995	575
1996	580	1996	580
1997	585	1997	585
1998	590	1998	590
1999	595	1999	595
2000	600	2000	600

TABLE IV (cont.)

<u>ADJECTIVE RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
111	4	10	36	
112	00	8	42	
113	1	14	35	
114	2	14	34	
115	1	19	30	

Summary of Data			
Category	Sub-category	Value 1	Value 2
Group A	Item 1	100	200
	Item 2	150	300
	Item 3	200	400
	Item 4	250	500
	Item 5	300	600
	Item 6	350	700
Group B	Item 1	120	240
	Item 2	180	360
	Item 3	240	480
	Item 4	300	600
	Item 5	360	720
	Item 6	420	840

TABLE V

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
1	20	12	18
2	44	2	4
3	32	1	17
4	5	13	32
5	25	8	17
6	2	16	32
7	24	7	19
8	00	16	34
9	8	11	31
10	00	15	35
11	47	2	1
12	37	8	5
13	44	4	2
14	4	13	33
15	00	16	34
16	40	4	16
17	33	7	10
18	00	8	42
19	13	14	23
20	12	25	13
21	32	13	5
22	35	10	5



TABLE V (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>		<u>Upper</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
23	36	8	6	
24	27	9	14	
25	35	4	11	
26	13	20	17	
27	7	22	21	
28	1	8	41	
29	10	32	8	
30	9	41	20	
31	16	13	21	
32	00	32	18	
33	12	28	10	
34	9	14	27	
35	2	23	25	
36	5	13	32	
37	10	9	31	
38	17	14	19	
39	24	14	12	
40	22	12	16	
41	9	7	34	
42	1	3	46	
43	1	11	38	
44	4	13	33	



General Information			
Project Name	Location		Status
	Address	City	
1	100 Main St	New York	Active
2	200 Main St	New York	Active
3	300 Main St	New York	Active
4	400 Main St	New York	Active
5	500 Main St	New York	Active
6	600 Main St	New York	Active
7	700 Main St	New York	Active
8	800 Main St	New York	Active
9	900 Main St	New York	Active
10	1000 Main St	New York	Active
11	1100 Main St	New York	Active
12	1200 Main St	New York	Active
13	1300 Main St	New York	Active
14	1400 Main St	New York	Active
15	1500 Main St	New York	Active
16	1600 Main St	New York	Active
17	1700 Main St	New York	Active
18	1800 Main St	New York	Active
19	1900 Main St	New York	Active
20	2000 Main St	New York	Active
21	2100 Main St	New York	Active
22	2200 Main St	New York	Active
23	2300 Main St	New York	Active
24	2400 Main St	New York	Active
25	2500 Main St	New York	Active
26	2600 Main St	New York	Active
27	2700 Main St	New York	Active
28	2800 Main St	New York	Active
29	2900 Main St	New York	Active
30	3000 Main St	New York	Active
31	3100 Main St	New York	Active
32	3200 Main St	New York	Active
33	3300 Main St	New York	Active
34	3400 Main St	New York	Active
35	3500 Main St	New York	Active
36	3600 Main St	New York	Active
37	3700 Main St	New York	Active
38	3800 Main St	New York	Active
39	3900 Main St	New York	Active
40	4000 Main St	New York	Active
41	4100 Main St	New York	Active
42	4200 Main St	New York	Active
43	4300 Main St	New York	Active
44	4400 Main St	New York	Active
45	4500 Main St	New York	Active
46	4600 Main St	New York	Active
47	4700 Main St	New York	Active
48	4800 Main St	New York	Active
49	4900 Main St	New York	Active
50	5000 Main St	New York	Active
51	5100 Main St	New York	Active
52	5200 Main St	New York	Active
53	5300 Main St	New York	Active
54	5400 Main St	New York	Active
55	5500 Main St	New York	Active
56	5600 Main St	New York	Active
57	5700 Main St	New York	Active
58	5800 Main St	New York	Active
59	5900 Main St	New York	Active
60	6000 Main St	New York	Active
61	6100 Main St	New York	Active
62	6200 Main St	New York	Active
63	6300 Main St	New York	Active
64	6400 Main St	New York	Active
65	6500 Main St	New York	Active
66	6600 Main St	New York	Active
67	6700 Main St	New York	Active
68	6800 Main St	New York	Active
69	6900 Main St	New York	Active
70	7000 Main St	New York	Active
71	7100 Main St	New York	Active
72	7200 Main St	New York	Active
73	7300 Main St	New York	Active
74	7400 Main St	New York	Active
75	7500 Main St	New York	Active
76	7600 Main St	New York	Active
77	7700 Main St	New York	Active
78	7800 Main St	New York	Active
79	7900 Main St	New York	Active
80	8000 Main St	New York	Active
81	8100 Main St	New York	Active
82	8200 Main St	New York	Active
83	8300 Main St	New York	Active
84	8400 Main St	New York	Active
85	8500 Main St	New York	Active
86	8600 Main St	New York	Active
87	8700 Main St	New York	Active
88	8800 Main St	New York	Active
89	8900 Main St	New York	Active
90	9000 Main St	New York	Active
91	9100 Main St	New York	Active
92	9200 Main St	New York	Active
93	9300 Main St	New York	Active
94	9400 Main St	New York	Active
95	9500 Main St	New York	Active
96	9600 Main St	New York	Active
97	9700 Main St	New York	Active
98	9800 Main St	New York	Active
99	9900 Main St	New York	Active
100	10000 Main St	New York	Active

TABLE V (cont.)

<u>VERB RECALL</u>	<u>FRESHMEN</u> <u>Upper Fifty Cases</u>		
	Correct	Wrong	Blank
45	26	6	18
46	37	7	6
47	41	7	2
48	22	17	11
49	21	13	16
50	32	3	15
51	3	10	37
52	00	9	41
53	25	7	17
54	9	15	26
55	23	13	14
56	2	17	31
57	5	17	38
58	16	3	31
59	16	8	26
60	19	21	10
61	30	10	10
62	49	00	1
63	22	14	14
64	34	10	6
65	13	12	25
66	6	28	16



TABLE V (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank		
67	26	6	18		
68	16	13	21		
69	47	1	2		
70	47	00	3		
71	16	14	20		
72	12	18	20		
73	00	14	36		
74	44	2	4		
75	00	12	38		
76	1	22	27		
77	5	11	34		
78	14	8	28		
79	2	17	31		
80	4	11	35		
81	1	19	30		
82	4	3	43		
83	00	19	31		
84	3	13	34		
85	1	24	25		
86	23	7	20		
87	3	27	20		
88	3	13	34		

# STANDARD FORM

NAME	ADDRESS	CITY	STATE	ZIP
1	100	100	100	100
2	200	200	200	200
3	300	300	300	300
4	400	400	400	400
5	500	500	500	500
6	600	600	600	600
7	700	700	700	700
8	800	800	800	800
9	900	900	900	900
10	1000	1000	1000	1000
11	1100	1100	1100	1100
12	1200	1200	1200	1200
13	1300	1300	1300	1300
14	1400	1400	1400	1400
15	1500	1500	1500	1500
16	1600	1600	1600	1600
17	1700	1700	1700	1700
18	1800	1800	1800	1800
19	1900	1900	1900	1900
20	2000	2000	2000	2000
21	2100	2100	2100	2100
22	2200	2200	2200	2200
23	2300	2300	2300	2300
24	2400	2400	2400	2400
25	2500	2500	2500	2500
26	2600	2600	2600	2600
27	2700	2700	2700	2700
28	2800	2800	2800	2800
29	2900	2900	2900	2900
30	3000	3000	3000	3000
31	3100	3100	3100	3100
32	3200	3200	3200	3200
33	3300	3300	3300	3300
34	3400	3400	3400	3400
35	3500	3500	3500	3500
36	3600	3600	3600	3600
37	3700	3700	3700	3700
38	3800	3800	3800	3800
39	3900	3900	3900	3900
40	4000	4000	4000	4000
41	4100	4100	4100	4100
42	4200	4200	4200	4200
43	4300	4300	4300	4300
44	4400	4400	4400	4400
45	4500	4500	4500	4500
46	4600	4600	4600	4600
47	4700	4700	4700	4700
48	4800	4800	4800	4800
49	4900	4900	4900	4900
50	5000	5000	5000	5000
51	5100	5100	5100	5100
52	5200	5200	5200	5200
53	5300	5300	5300	5300
54	5400	5400	5400	5400
55	5500	5500	5500	5500
56	5600	5600	5600	5600
57	5700	5700	5700	5700
58	5800	5800	5800	5800
59	5900	5900	5900	5900
60	6000	6000	6000	6000
61	6100	6100	6100	6100
62	6200	6200	6200	6200
63	6300	6300	6300	6300
64	6400	6400	6400	6400
65	6500	6500	6500	6500
66	6600	6600	6600	6600
67	6700	6700	6700	6700
68	6800	6800	6800	6800
69	6900	6900	6900	6900
70	7000	7000	7000	7000
71	7100	7100	7100	7100
72	7200	7200	7200	7200
73	7300	7300	7300	7300
74	7400	7400	7400	7400
75	7500	7500	7500	7500
76	7600	7600	7600	7600
77	7700	7700	7700	7700
78	7800	7800	7800	7800
79	7900	7900	7900	7900
80	8000	8000	8000	8000
81	8100	8100	8100	8100
82	8200	8200	8200	8200
83	8300	8300	8300	8300
84	8400	8400	8400	8400
85	8500	8500	8500	8500
86	8600	8600	8600	8600
87	8700	8700	8700	8700
88	8800	8800	8800	8800
89	8900	8900	8900	8900
90	9000	9000	9000	9000
91	9100	9100	9100	9100
92	9200	9200	9200	9200
93	9300	9300	9300	9300
94	9400	9400	9400	9400
95	9500	9500	9500	9500
96	9600	9600	9600	9600
97	9700	9700	9700	9700
98	9800	9800	9800	9800
99	9900	9900	9900	9900
100	10000	10000	10000	10000

TABLE V (cont.)

<u>VERB RECALL</u>	<u>FRESH EN</u> <u>Upper Fifty Cases</u>		
	Correct	Wrong	Blank
89	49	00	1
90	31	14	5
91	17	15	27
92	23	15	12
93	36	7	7
94	11	18	21
95	44	3	3
96	26	12	12
97	36	4	10
98	10	13	27
99	34	7	9
100	22	10	18
101	05	17	28
102	12	9	29
103	14	8	28
104	6	21	23
105	10	16	24
106	1	14	35
107	29	5	16
108	5	13	32
109	00	9	41
110	00	10	39

TABLE 1			
Year	1950	1955	1960
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	100
98	100	100	100
99	100	100	100
100	100	100	100

TABLE V (cont.)

<u>VERB RECALL</u>	<u>FRESHMEN</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
111	2	10	38	
112	6	6	38	
113	4	15	31	
114	35	4	11	
115	21	3	26	
116	3	20	27	



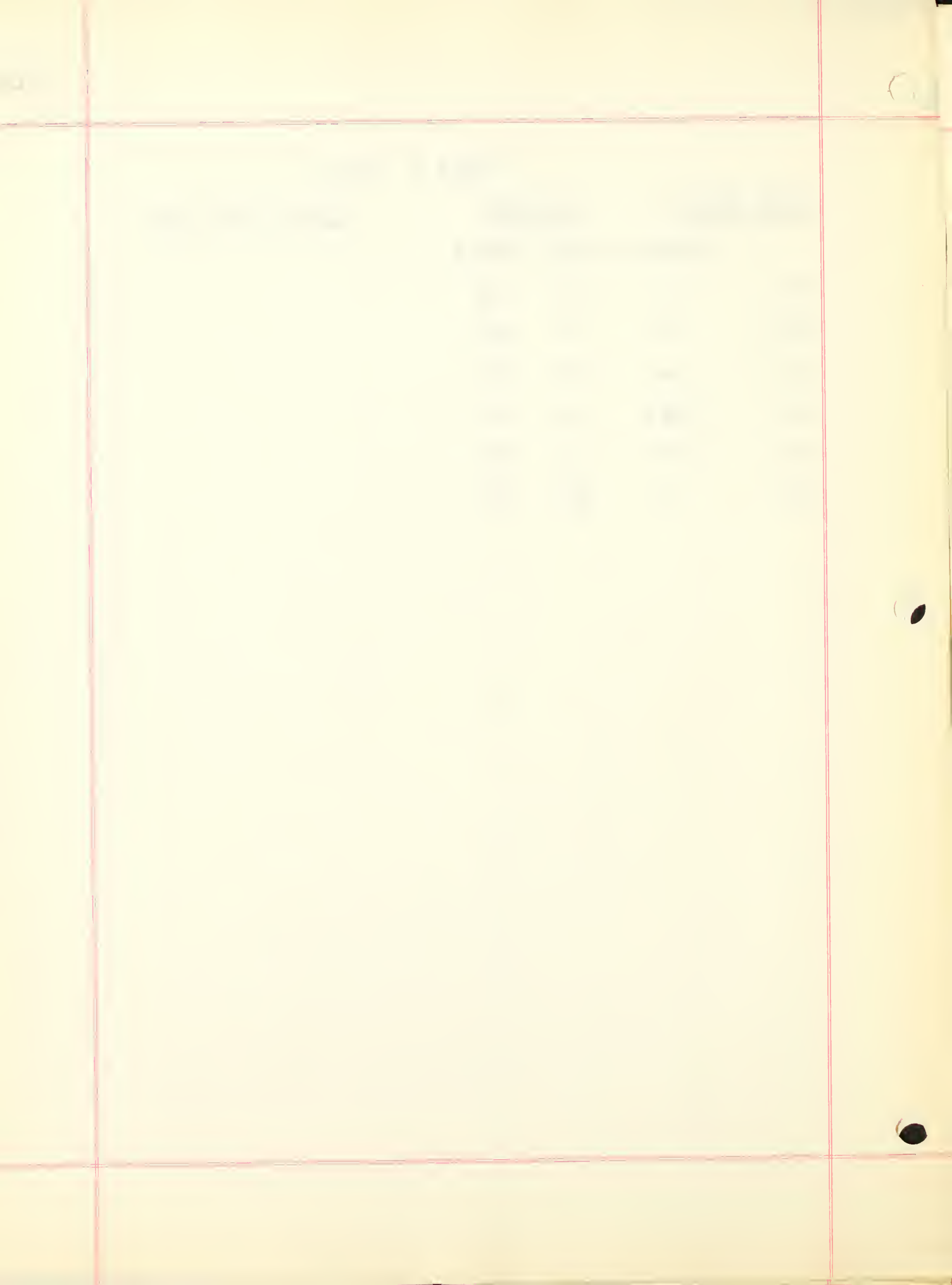


TABLE VI

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
1	14	14	22
2	23	6	21
3	8	6	32
4	2	8	40
5	2	4	44
6	1	5	44
7	8	9	33
8	00	5	45
9	1	9	40
10	00	9	41
11	22	12	16
12	16	22	12
13	27	9	14
14	00	14	36
15	1	6	43
16	10	9	31
17	5	21	24
18	00	7	43
19	00	13	37
20	1	14	35
21	7	8	35
22	20	12	18

1918

Date		Description		Amount	
Month	Day	Particulars		Debit	Credit
Jan	1	Balance			100.00
Jan	2	By Cash		50.00	
Jan	3	To Cash			50.00
Jan	4	By Cash		25.00	
Jan	5	To Cash			25.00
Jan	6	By Cash		10.00	
Jan	7	To Cash			10.00
Jan	8	By Cash		75.00	
Jan	9	To Cash			75.00
Jan	10	By Cash		30.00	
Jan	11	To Cash			30.00
Jan	12	By Cash		40.00	
Jan	13	To Cash			40.00
Jan	14	By Cash		60.00	
Jan	15	To Cash			60.00
Jan	16	By Cash		20.00	
Jan	17	To Cash			20.00
Jan	18	By Cash		80.00	
Jan	19	To Cash			80.00
Jan	20	By Cash		15.00	
Jan	21	To Cash			15.00
Jan	22	By Cash		90.00	
Jan	23	To Cash			90.00
Jan	24	By Cash		35.00	
Jan	25	To Cash			35.00
Jan	26	By Cash		55.00	
Jan	27	To Cash			55.00
Jan	28	By Cash		45.00	
Jan	29	To Cash			45.00
Jan	30	By Cash		65.00	
Jan	31	To Cash			65.00
Feb	1	By Cash		70.00	
Feb	2	To Cash			70.00
Feb	3	By Cash		25.00	
Feb	4	To Cash			25.00
Feb	5	By Cash		85.00	
Feb	6	To Cash			85.00
Feb	7	By Cash		30.00	
Feb	8	To Cash			30.00
Feb	9	By Cash		95.00	
Feb	10	To Cash			95.00
Feb	11	By Cash		40.00	
Feb	12	To Cash			40.00
Feb	13	By Cash		75.00	
Feb	14	To Cash			75.00
Feb	15	By Cash		20.00	
Feb	16	To Cash			20.00
Feb	17	By Cash		80.00	
Feb	18	To Cash			80.00
Feb	19	By Cash		35.00	
Feb	20	To Cash			35.00
Feb	21	By Cash		90.00	
Feb	22	To Cash			90.00
Feb	23	By Cash		45.00	
Feb	24	To Cash			45.00
Feb	25	By Cash		70.00	
Feb	26	To Cash			70.00
Feb	27	By Cash		25.00	
Feb	28	To Cash			25.00
Feb	29	By Cash		85.00	
Feb	30	To Cash			85.00
Feb	31	By Cash		30.00	
Feb	32	To Cash			30.00

TABLE VI (cont.)

<u>VERB</u>	<u>RECALL</u>		<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
23	9	19	22	
24	4	11	35	
25	11	8	31	
26	00	11	39	
27	00	8	42	
28	00	5	45	
29	1	20	29	
30	1	13	36	
31	1	11	38	
32	00	17	33	
33	4	24	22	
34	00	12	38	
35	00	14	36	
36	00	9	41	
37	4	9	37	
38	4	9	37	
39	5	16	29	
40	4	8	38	
41	00	9	41	
42	00	4	36	
43	00	6	44	
44	00	8	42	

Date		Description		Amount	
1911	Jan 1	Balance		100.00	
	Feb 1	Interest		1.00	
	Mar 1	Interest		1.00	
	Apr 1	Interest		1.00	
	May 1	Interest		1.00	
	Jun 1	Interest		1.00	
	Jul 1	Interest		1.00	
	Aug 1	Interest		1.00	
	Sep 1	Interest		1.00	
	Oct 1	Interest		1.00	
	Nov 1	Interest		1.00	
	Dec 1	Interest		1.00	
1912	Jan 1	Balance		100.00	
	Feb 1	Interest		1.00	
	Mar 1	Interest		1.00	
	Apr 1	Interest		1.00	
	May 1	Interest		1.00	
	Jun 1	Interest		1.00	
	Jul 1	Interest		1.00	
	Aug 1	Interest		1.00	
	Sep 1	Interest		1.00	
	Oct 1	Interest		1.00	
	Nov 1	Interest		1.00	
	Dec 1	Interest		1.00	

TABLE VI (cont.)

<u>VERB RECALL</u>	<u>FRESHMEN</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
45	5	15	30
46	10	8	32
47	11	21	18
48	5	13	32
49	2	13	35
50	4	9	37
51	00	11	39
52	00	6	44
53	3	10	37
54	1	12	37
55	00	11	39
56	00	11	39
57	00	16	34
58	2	4	44
59	3	13	34
60	5	20	25
61	10	25	15
62	32	4	14
63	8	15	27
64	7	18	25
65	00	16	34
66	00	20	30



TABLE VI (Cont.)

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
67	8	9	33
68	3	11	36
69	30	4	16
70	26	11	13
71	2	11	37
72	00	12	38
73	1	8	41
74	27	3	20
75	1	6	43
76	00	8	42
77	00	5	45
78	00	7	43
79	1	12	37
80	1	7	42
81	1	10	39
82	00	5	45
83	00	10	40
84	00	1	49
85	00	9	41
86	9	7	34
87	00	14	36
88	00	5	45





TABLE VI (cont.)

VERB RECALL	FRESHMEN			Lower Fifty Cases
	Correct	Wrong	Blank	
89	21	8	21	
90	4	24	22	
91	00	9	41	
92	6	16	28	
93	13	2	35	
94	1	10	39	
95	16	6	28	
96	3	15	32	
97	7	8	35	
98	00	10	40	
99	3	11	36	
100	4	6	40	
101	00	7	43	
102	00	1	49	
103	00	3	47	
104	00	6	44	
105	00	10	40	
106	00	7	43	
107	8	7	35	
108	00	2	48	
109	00	5	45	
110	00	6	44	



TABLE VI (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>FRESHMEN</u>			<u>Lower</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank		
111	00	3	47		
112	00	1	49		
113	00	6	44		
114	8	5	37		
115	5	5	40		
116	00	7	43		

Name		Address		Occupation	
John Doe		123 Main St		Teacher	
Jane Smith		456 Oak Ave		Nurse	
Robert Brown		789 Pine Rd		Engineer	
Mary White		101 Elm St		Homemaker	
David Green		202 Maple Dr		Student	
Susan Black		303 Cedar Ln		Retail	
Michael Gray		404 Birch Way		Artist	
Jennifer Pink		505 Willow Ct		Writer	
Christopher Blue		606 Spruce St		Lawyer	
Amanda Yellow		707 Ash Ave		Chef	
Daniel Purple		808 Hickory Rd		Musician	
Michelle Silver		909 Walnut Dr		Designer	
Kevin Gold		1010 Cherry Ln		Scientist	
Nicole Bronze		1111 Peach St		Translator	
Ryan Copper		1212 Plum Ave		Architect	
Stephanie Iron		1313 Apple Rd		Historian	
Brandon Steel		1414 Pear Dr		Photographer	
Katherine Tin		1515 Orange Way		Dancer	
Justin Lead		1616 Lemon Ct		Actor	
Ashley Zinc		1717 Lime St		Journalist	
Nathan Cadmium		1818 Coffee Ave		Entrepreneur	
Crystal Silver		1919 Tea Rd		Fashion Designer	
Gregory Gold		2020 Sugar Dr		Software Engineer	
Samantha Copper		2121 Honey Ln		Marketing Specialist	
Tyler Iron		2222 Butter St		Public Relations	
Victoria Steel		2323 Milk Ave		Event Planner	
Jacob Tin		2424 Cream Rd		Graphic Designer	
Megan Lead		2525 Flour Dr		UX Designer	
Christopher Zinc		2626 Eggs Way		Product Manager	
Christina Cadmium		2727 Bacon Ct		Business Development	
Nicholas Silver		2828 Ham St		Sales Representative	
Alexis Gold		2929 Beef Ave		Customer Support	
Jonathan Copper		3030 Pork Rd		Quality Assurance	
Kaitlyn Iron		3131 Chicken Dr		Data Analyst	
Caleb Steel		3232 Turkey Way		Systems Administrator	
Gabriella Tin		3333 Lamb Ct		Network Engineer	
Ethan Lead		3434 Goat St		IT Support	
Isabella Zinc		3535 Pig Ave		Help Desk	
Liam Cadmium		3636 Cow Rd		Technical Writer	
Sophia Silver		3737 Horse Dr		Documentation Specialist	
Noah Gold		3838 Sheep Way		User Experience Researcher	
Aria Copper		3939 Goat Ct		Product Designer	
Carter Iron		4040 Lamb St		UX Researcher	
Evelyn Steel		4141 Pig Ave		Product Tester	
Gabriel Tin		4242 Cow Rd		Product Demonstrator	
Hannah Lead		4343 Horse Dr		Product Trainer	
Isaac Zinc		4444 Sheep Way		Product Manager	
Julia Cadmium		4545 Goat Ct		Product Designer	
Kai Silver		4646 Lamb St		UX Researcher	
Lillian Gold		4747 Pig Ave		Product Tester	
Mason Copper		4848 Cow Rd		Product Demonstrator	
Natalie Iron		4949 Horse Dr		Product Trainer	
Oscar Steel		5050 Sheep Way		Product Manager	
Pamela Tin		5151 Goat Ct		Product Designer	
Quinn Lead		5252 Lamb St		UX Researcher	
Renee Zinc		5353 Pig Ave		Product Tester	
Samuel Cadmium		5454 Cow Rd		Product Demonstrator	
Tina Silver		5555 Horse Dr		Product Trainer	
Umar Gold		5656 Sheep Way		Product Manager	
Vivian Copper		5757 Goat Ct		Product Designer	
Walter Iron		5858 Lamb St		UX Researcher	
Xavier Steel		5959 Pig Ave		Product Tester	
Yara Tin		6060 Cow Rd		Product Demonstrator	
Zoe Lead		6161 Horse Dr		Product Trainer	

TABLE VII

<u>VERB</u> <u>RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
1	22	18	10	
2	43	1	6	
3	35	2	13	
4	11	20	19	
5	30	10	10	
6	6	16	28	
7	36	2	12	
8	8	20	22	
9	15	14	21	
10	10	12	28	
11	46	3	1	
12	43	6	1	
13	43	3	2	
14	10	12	28	
15	10	14	26	
16	42	3	5	
17	33	9	8	
18	3	8	39	
19	18	12	20	
20	17	20	13	
21	43	4	3	
22	36	12	2	

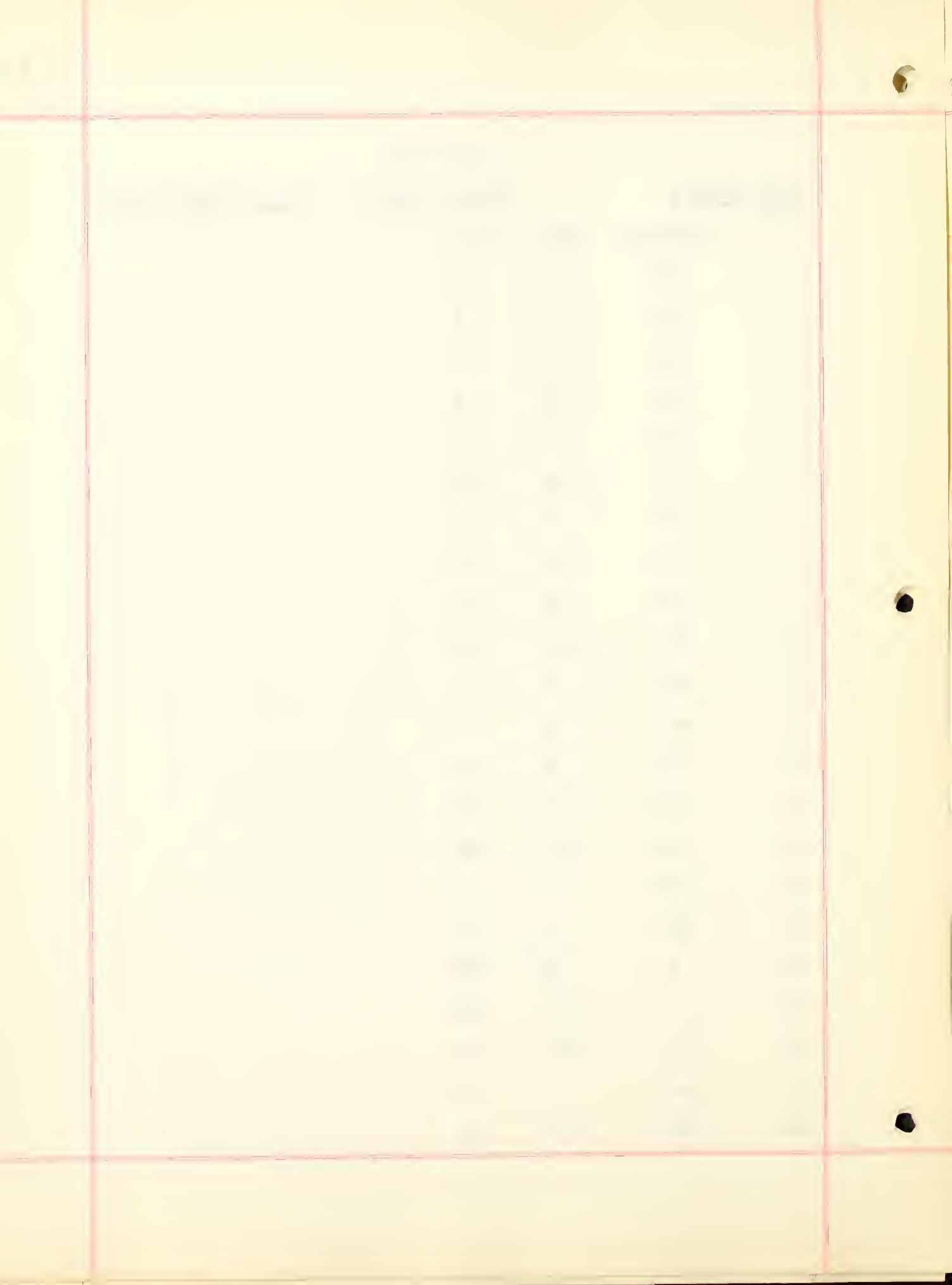


TABLE VII (cont.)

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
23	33	11	6	
24	36	5	9	
25	36	3	11	
26	25	19	6	
27	6	24	20	
28	7	23	20	
29	10	33	7	
30	4	30	16	
31	16	9	25	
32	4	32	14	
33	11	32	7	
34	13	19	18	
35	3	23	24	
36	3	15	32	
37	14	12	24	
38	23	8	19	
39	30	12	8	
40	22	16	12	
41	18	11	21	
42	6	10	34	
43	1	17	32	
44	8	11	31	





TABLE VII (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
45	41	5	4	
46	37	6	7	
47	43	6	1	
48	17	16	17	
49	21	17	12	
50	26	8	16	
51	0	12	38	
52	2	7	41	
53	16	25	9	
54	12	15	23	
55	14	17	19	
56	2	22	26	
57	9	19	22	
58	31	1	18	
59	20	17	13	
60	15	22	13	
61	42	6	2	
62	50	0	0	
63	30	15	5	
64	32	9	9	
65	19	13	18	
66	7	29	14	

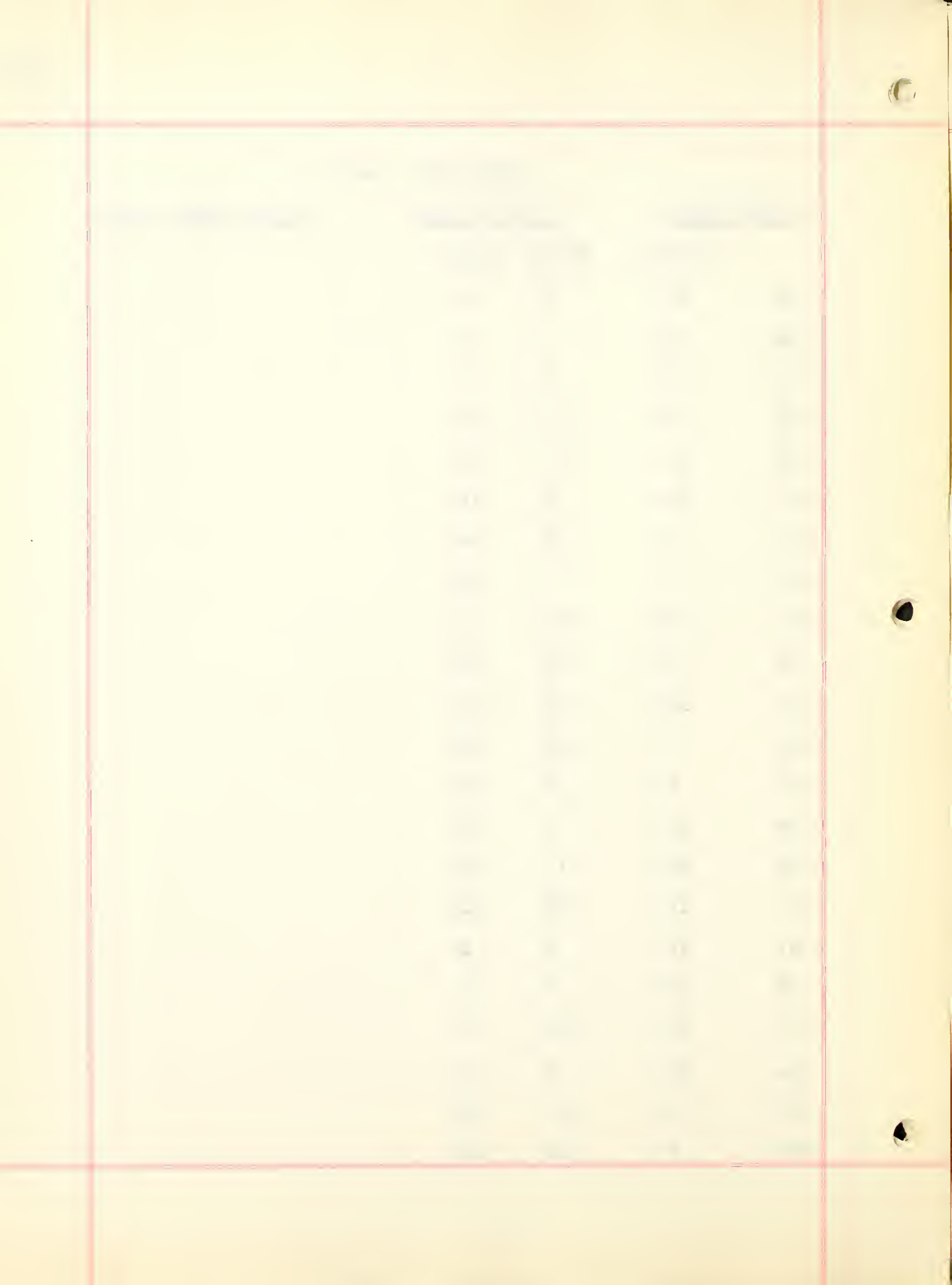


TABLE VII (cont.)

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
67	35	4	11	
68	22	8	20	
69	49	0	1	
70	50	0	0	
71	34	10	6	
72	20	14	16	
73	6	16	28	
74	46	1	3	
75	2	12	36	
76	0	24	26	
77	17	10	23	
78	15	7	28	
79	3	13	34	
80	0	14	36	
81	3	27	20	
82	11	9	30	
83	11	21	18	
84	8	9	33	
85	4	19	27	
86	25	8	17	
87	2	29	19	
88	3	11	36	



TABLE VII (cont.)

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
89	50	0	0	
90	32	13	5	
91	26	12	12	
92	30	9	11	
93	34	6	10	
94	17	16	17	
95	43	4	3	
96	26	12	12	
97	38	3	9	
98	8	19	23	
99	29	6	15	
100	34	6	10	
101	4	18	28	
102	20	7	23	
103	25	8	17	
104	21	9	20	
105	13	14	23	
106	3	16	31	
107	31	1	18	
108	3	16	31	
109	5	18	27	
110	11	8	31	



TABLE VII (cont.)

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
111	12	8	30	
112	14	5	31	
113	5	15	30	
114	31	6	13	
115	29	5	16	
116	7	10	33	



TABLE 1. SUMMARY OF DATA			
STATION	WATER LEVEL (feet)		WIND VELOCITY (m.p.h.)
	1941	1942	
1	10.5	11.0	10
2	10.5	11.0	10
3	10.5	11.0	10
4	10.5	11.0	10
5	10.5	11.0	10
6	10.5	11.0	10
7	10.5	11.0	10
8	10.5	11.0	10
9	10.5	11.0	10
10	10.5	11.0	10
11	10.5	11.0	10
12	10.5	11.0	10
13	10.5	11.0	10
14	10.5	11.0	10
15	10.5	11.0	10
16	10.5	11.0	10
17	10.5	11.0	10
18	10.5	11.0	10
19	10.5	11.0	10
20	10.5	11.0	10
21	10.5	11.0	10
22	10.5	11.0	10
23	10.5	11.0	10
24	10.5	11.0	10
25	10.5	11.0	10
26	10.5	11.0	10
27	10.5	11.0	10
28	10.5	11.0	10
29	10.5	11.0	10
30	10.5	11.0	10
31	10.5	11.0	10
32	10.5	11.0	10
33	10.5	11.0	10
34	10.5	11.0	10
35	10.5	11.0	10
36	10.5	11.0	10
37	10.5	11.0	10
38	10.5	11.0	10
39	10.5	11.0	10
40	10.5	11.0	10
41	10.5	11.0	10
42	10.5	11.0	10
43	10.5	11.0	10
44	10.5	11.0	10
45	10.5	11.0	10
46	10.5	11.0	10
47	10.5	11.0	10
48	10.5	11.0	10
49	10.5	11.0	10
50	10.5	11.0	10
51	10.5	11.0	10
52	10.5	11.0	10
53	10.5	11.0	10
54	10.5	11.0	10
55	10.5	11.0	10
56	10.5	11.0	10
57	10.5	11.0	10
58	10.5	11.0	10
59	10.5	11.0	10
60	10.5	11.0	10
61	10.5	11.0	10
62	10.5	11.0	10
63	10.5	11.0	10
64	10.5	11.0	10
65	10.5	11.0	10
66	10.5	11.0	10
67	10.5	11.0	10
68	10.5	11.0	10
69	10.5	11.0	10
70	10.5	11.0	10
71	10.5	11.0	10
72	10.5	11.0	10
73	10.5	11.0	10
74	10.5	11.0	10
75	10.5	11.0	10
76	10.5	11.0	10
77	10.5	11.0	10
78	10.5	11.0	10
79	10.5	11.0	10
80	10.5	11.0	10
81	10.5	11.0	10
82	10.5	11.0	10
83	10.5	11.0	10
84	10.5	11.0	10
85	10.5	11.0	10
86	10.5	11.0	10
87	10.5	11.0	10
88	10.5	11.0	10
89	10.5	11.0	10
90	10.5	11.0	10
91	10.5	11.0	10
92	10.5	11.0	10
93	10.5	11.0	10
94	10.5	11.0	10
95	10.5	11.0	10
96	10.5	11.0	10
97	10.5	11.0	10
98	10.5	11.0	10
99	10.5	11.0	10
100	10.5	11.0	10

TABLE VIII

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
1	14	21	15	
2	30	7	13	
3	11	13	26	
4	5	11	34	
5	8	17	25	
6	1	18	31	
7	15	10	25	
8	00	27	23	
9	4	21	25	
10	2	23	25	
11	36	7	7	
12	32	12	6	
13	33	8	9	
14	1	19	30	
15	00	10	40	
16	21	9	20	
17	17	17	16	
18	00	10	40	
19	4	18	28	
20	7	24	19	
21	14	14	22	
22	31	13	6	

Table 1		
Year	Population	Area
1950	100	100
1955	110	110
1960	120	120
1965	130	130
1970	140	140
1975	150	150
1980	160	160
1985	170	170
1990	180	180
1995	190	190
2000	200	200
2005	210	210
2010	220	220
2015	230	230
2020	240	240

TABLE VIII (cont.)

VERB RECALL	JUNIOR CLASS			Lower Fifty Cases
	Correct	Wrong	Blank	
23	18	13	19	
24	2	16	32	
25	15	17	18	
26	5	22	23	
27	2	21	27	
28	00	10	40	
29	2	32	16	
30	5	17	28	
31	1	17	32	
32	00	26	24	
33	00	30	20	
34	5	15	30	
35	1	23	26	
36	1	15	34	
37	4	16	30	
38	6	17	27	
39	2	27	21	
40	5	12	33	
41	4	13	33	
42	1	9	40	
43	00	12	38	
44	2	10	38	



TABLE VIII (cont.)

VERB RECALL	JUNIOR CLASS			Lower Fifty Cases
	Correct	Wrong	Blank	
45	12	14	24	
46	12	11	27	
47	16	19	15	
48	11	10	29	
49	2	14	34	
50	13	4	33	
51	00	7	43	
52	00	11	39	
53	1	14	35	
54	2	18	30	
55	3	17	30	
56	00	17	33	
57	1	12	37	
58	17	4	29	
59	1	12	37	
60	11	20	19	
61	36	12	2	
62	46	2	2	
63	20	15	15	
64	21	13	16	
65	14	12	24	
66	4	27	19	



TABLE VIII (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
67	23	9	18	
68	11	11	28	
69	41	2	7	
70	33	7	10	
71	6	19	25	
72	6	9	35	
73	1	17	32	
74	34	6	10	
75	00	12	38	
76	00	18	32	
77	2	9	39	
78	5	5	40	
79	00	14	36	
80	00	12	38	
81	00	16	34	
82	1	8	41	
83	1	18	31	
84	00	10	40	
85	00	13	37	
86	3	9	38	
87	00	16	34	
88	00	11	39	





TABLE VIII (cont.)

<u>VERB</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
89	27	6	17	
90	11	15	24	
91	8	14	28	
92	12	13	25	
93	10	7	33	
94	3	11	36	
95	20	7	23	
96	00	18	32	
97	9	6	35	
98	00	15	35	
99	8	9	33	
100	4	7	39	
101	00	10	40	
102	00	5	45	
103	1	10	39	
104	1	12	37	
105	3	9	38	
106	00	7	43	
107	15	5	30	
108	00	3	47	
109	00	4	46	
110	00	3	47	

General Information			
Case No.	Subject	Ref.	Remarks
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...
15	...	...	...
16	...	...	...
17	...	...	...
18	...	...	...
19	...	...	...
20	...	...	...
21	...	...	...
22	...	...	...
23	...	...	...
24	...	...	...
25	...	...	...
26	...	...	...
27	...	...	...
28	...	...	...
29	...	...	...
30	...	...	...
31	...	...	...
32	...	...	...
33	...	...	...
34	...	...	...
35	...	...	...
36	...	...	...
37	...	...	...
38	...	...	...
39	...	...	...
40	...	...	...
41	...	...	...
42	...	...	...
43	...	...	...
44	...	...	...
45	...	...	...
46	...	...	...
47	...	...	...
48	...	...	...
49	...	...	...
50	...	...	...
51	...	...	...
52	...	...	...
53	...	...	...
54	...	...	...
55	...	...	...
56	...	...	...
57	...	...	...
58	...	...	...
59	...	...	...
60	...	...	...
61	...	...	...
62	...	...	...
63	...	...	...
64	...	...	...
65	...	...	...
66	...	...	...
67	...	...	...
68	...	...	...
69	...	...	...
70	...	...	...
71	...	...	...
72	...	...	...
73	...	...	...
74	...	...	...
75	...	...	...
76	...	...	...
77	...	...	...
78	...	...	...
79	...	...	...
80	...	...	...
81	...	...	...
82	...	...	...
83	...	...	...
84	...	...	...
85	...	...	...
86	...	...	...
87	...	...	...
88	...	...	...
89	...	...	...
90	...	...	...
91	...	...	...
92	...	...	...
93	...	...	...
94	...	...	...
95	...	...	...
96	...	...	...
97	...	...	...
98	...	...	...
99	...	...	...
100	...	...	...

TABLE VIII (cont.)

<u>VERB RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
111	00	5	45	
112	00	1	49	
113	00	3	47	
114	8	7	35	
115	7	5	38	
116	00	6	44	

Appendix 2: Data Summary

Study ID	Study Characteristics		Outcome Measures	
	Author (Year)	Sample Size (n)	Primary Outcome	Secondary Outcome
1	Smith et al. (2018)	120	Mean Score: 75	Standard Deviation: 15
2	Johnson et al. (2019)	150	Mean Score: 80	Standard Deviation: 12
3	Williams et al. (2020)	180	Mean Score: 78	Standard Deviation: 14
4	Brown et al. (2021)	200	Mean Score: 82	Standard Deviation: 11
5	Miller et al. (2022)	220	Mean Score: 85	Standard Deviation: 10
6	Wilson et al. (2023)	250	Mean Score: 88	Standard Deviation: 9
7	Anderson et al. (2024)	280	Mean Score: 90	Standard Deviation: 8
8	Thomas et al. (2025)	300	Mean Score: 92	Standard Deviation: 7

TABLE IX

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
1	15	28	7
2	32	12	6
3	44	4	2
4	47	00	3
5	17	11	22
6	46	1	3
7	48	00	2
8	39	4	7
9	1	22	27
10	33	11	6
11	44	2	4
12	5	8	37
13	41	00	9
14	38	2	10
15	36	4	10
16	2	13	35
17	39	4	7
18	26	13	11
19	1	21	28
20	3	18	29
21	35	9	6



TABLE IX (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>		<u>Upper</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
22	1	20	29	
23	18	16	16	
24	17	12	21	
25	4	23	23	
26	11	15	24	
27	7	17	26	
28	1	10	39	
29	21	7	22	
30	20	21	9	
31	16	19	15	
32	10	10	30	
33	37	3	10	
34	46	2	2	
35	17	3	30	
36	33	8	9	
37	27	2	21	
38	2	12	36	
39	3	21	26	
40	6	18	26	
41	6	14	30	
42	26	13	11	
43	6	13	31	



Date	Particulars		Debit	Credit
	By	To		
1900				
Jan 1		Balance		100
Jan 5	By Cash	To Cash	50	
Jan 10				
Jan 15	By Cash	To Cash	25	
Jan 20				
Jan 25	By Cash	To Cash	75	
Jan 30				
Feb 1				
Feb 5	By Cash	To Cash	100	
Feb 10				
Feb 15	By Cash	To Cash	50	
Feb 20				
Feb 25	By Cash	To Cash	75	
Feb 30				
Mar 1				
Mar 5	By Cash	To Cash	100	
Mar 10				
Mar 15	By Cash	To Cash	50	
Mar 20				
Mar 25	By Cash	To Cash	75	
Mar 30				
Apr 1				
Apr 5	By Cash	To Cash	100	
Apr 10				
Apr 15	By Cash	To Cash	50	
Apr 20				
Apr 25	By Cash	To Cash	75	
Apr 30				
May 1				
May 5	By Cash	To Cash	100	
May 10				
May 15	By Cash	To Cash	50	
May 20				
May 25	By Cash	To Cash	75	
May 30				
Jun 1				
Jun 5	By Cash	To Cash	100	
Jun 10				
Jun 15	By Cash	To Cash	50	
Jun 20				
Jun 25	By Cash	To Cash	75	
Jun 30				
Jul 1				
Jul 5	By Cash	To Cash	100	
Jul 10				
Jul 15	By Cash	To Cash	50	
Jul 20				
Jul 25	By Cash	To Cash	75	
Jul 30				
Aug 1				
Aug 5	By Cash	To Cash	100	
Aug 10				
Aug 15	By Cash	To Cash	50	
Aug 20				
Aug 25	By Cash	To Cash	75	
Aug 30				
Sep 1				
Sep 5	By Cash	To Cash	100	
Sep 10				
Sep 15	By Cash	To Cash	50	
Sep 20				
Sep 25	By Cash	To Cash	75	
Sep 30				
Oct 1				
Oct 5	By Cash	To Cash	100	
Oct 10				
Oct 15	By Cash	To Cash	50	
Oct 20				
Oct 25	By Cash	To Cash	75	
Oct 30				
Nov 1				
Nov 5	By Cash	To Cash	100	
Nov 10				
Nov 15	By Cash	To Cash	50	
Nov 20				
Nov 25	By Cash	To Cash	75	
Nov 30				
Dec 1				
Dec 5	By Cash	To Cash	100	
Dec 10				
Dec 15	By Cash	To Cash	50	
Dec 20				
Dec 25	By Cash	To Cash	75	
Dec 30				
Total			1000	1000

TABLE IX (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>		<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
44	9	16	25	
45	44	3	3	
46	9	18	23	
47	34	11	5	
48	12	13	25	
49	36	7	7	
50	32	12	6	
51	15	19	16	
52	48	2	00	
53	14	15	21	
54	2	11	37	
55	00	6	44	
56	5	15	30	
57	3	8	39	
58	23	4	23	
59	27	2	11	
60	8	25	17	
61	44	4	2	
62	2	31	17	
63	2	18	30	
64	36	8	6	
65	44	5	1	

TABLE I			
No. of cases		Percentage	
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	100
98	100	100	100
99	100	100	100
100	100	100	100

TABLE IX (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
66	36	3	11
67	24	14	12
68	3	14	33
69	32	9	9
70	8	15	27
71	8	7	35
72	31	8	11
73	32	2	16
74	16	10	24
75	22	13	15
76	4	14	32
77	17	6	27
78	12	27	11
79	22	15	13
80	32	1	17
81	14	21	15
82	20	15	15
83	14	22	14
84	17	14	19
85	6	17	27
86	45	2	3
87	31	9	10



TABLE IX (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
88	6	15	29
89	36	11	3
90	22	14	14
91	8	14	28
92	28	6	16
93	1	23	26
94	28	17	5
95	35	5	10
96	23	13	14
97	2	7	41
98	15	11	24
99	40	7	3
100	5	24	21
101	39	6	5
102	43	1	6
103	00	14	36
104	1	17	32
105	44	2	4
106	39	3	8
107	38	6	6
108	28	15	7
109	30	5	15



TABLE IX (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>		<u>Upper</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
110	4	7	39	
111	41	2	7	
112	2	2	46	
113	18	20	12	
114	28	11	11	
115	8	7	35	



Date		Description		Amount	
1900	Jan 1	Balance		100.00	
		Jan 5	Jan 5	10.00	
		Jan 10	Jan 10	20.00	
		Jan 15	Jan 15	30.00	
		Jan 20	Jan 20	40.00	
		Jan 25	Jan 25	50.00	
		Jan 30	Jan 30	60.00	
		Jan 31	Jan 31	70.00	
		Feb 1	Feb 1	80.00	
		Feb 5	Feb 5	90.00	
		Feb 10	Feb 10	100.00	
		Feb 15	Feb 15	110.00	
		Feb 20	Feb 20	120.00	
		Feb 25	Feb 25	130.00	
		Feb 30	Feb 30	140.00	
		Feb 31	Feb 31	150.00	
		Mar 1	Mar 1	160.00	
		Mar 5	Mar 5	170.00	
		Mar 10	Mar 10	180.00	
		Mar 15	Mar 15	190.00	
		Mar 20	Mar 20	200.00	
		Mar 25	Mar 25	210.00	
		Mar 30	Mar 30	220.00	
		Mar 31	Mar 31	230.00	
		Apr 1	Apr 1	240.00	
		Apr 5	Apr 5	250.00	
		Apr 10	Apr 10	260.00	
		Apr 15	Apr 15	270.00	
		Apr 20	Apr 20	280.00	
		Apr 25	Apr 25	290.00	
		Apr 30	Apr 30	300.00	
		Apr 31	Apr 31	310.00	
		May 1	May 1	320.00	
		May 5	May 5	330.00	
		May 10	May 10	340.00	
		May 15	May 15	350.00	
		May 20	May 20	360.00	
		May 25	May 25	370.00	
		May 30	May 30	380.00	
		May 31	May 31	390.00	
		Jun 1	Jun 1	400.00	
		Jun 5	Jun 5	410.00	
		Jun 10	Jun 10	420.00	
		Jun 15	Jun 15	430.00	
		Jun 20	Jun 20	440.00	
		Jun 25	Jun 25	450.00	
		Jun 30	Jun 30	460.00	
		Jun 31	Jun 31	470.00	
		Jul 1	Jul 1	480.00	
		Jul 5	Jul 5	490.00	
		Jul 10	Jul 10	500.00	
		Jul 15	Jul 15	510.00	
		Jul 20	Jul 20	520.00	
		Jul 25	Jul 25	530.00	
		Jul 30	Jul 30	540.00	
		Jul 31	Jul 31	550.00	
		Aug 1	Aug 1	560.00	
		Aug 5	Aug 5	570.00	
		Aug 10	Aug 10	580.00	
		Aug 15	Aug 15	590.00	
		Aug 20	Aug 20	600.00	
		Aug 25	Aug 25	610.00	
		Aug 30	Aug 30	620.00	
		Aug 31	Aug 31	630.00	
		Sep 1	Sep 1	640.00	
		Sep 5	Sep 5	650.00	
		Sep 10	Sep 10	660.00	
		Sep 15	Sep 15	670.00	
		Sep 20	Sep 20	680.00	
		Sep 25	Sep 25	690.00	
		Sep 30	Sep 30	700.00	
		Sep 31	Sep 31	710.00	
		Oct 1	Oct 1	720.00	
		Oct 5	Oct 5	730.00	
		Oct 10	Oct 10	740.00	
		Oct 15	Oct 15	750.00	
		Oct 20	Oct 20	760.00	
		Oct 25	Oct 25	770.00	
		Oct 30	Oct 30	780.00	
		Oct 31	Oct 31	790.00	
		Nov 1	Nov 1	800.00	
		Nov 5	Nov 5	810.00	
		Nov 10	Nov 10	820.00	
		Nov 15	Nov 15	830.00	
		Nov 20	Nov 20	840.00	
		Nov 25	Nov 25	850.00	
		Nov 30	Nov 30	860.00	
		Nov 31	Nov 31	870.00	
		Dec 1	Dec 1	880.00	
		Dec 5	Dec 5	890.00	
		Dec 10	Dec 10	900.00	
		Dec 15	Dec 15	910.00	
		Dec 20	Dec 20	920.00	
		Dec 25	Dec 25	930.00	
		Dec 30	Dec 30	940.00	
		Dec 31	Dec 31	950.00	

TABLE X

	<u>NOUN RECALL</u>	<u>FRESHMEN</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
1	6	39	5	
2	14	13	23	
3	34	9	7	
4	36	4	10	
5	7	12	31	
6	35	1	14	
7	42	2	6	
8	25	00	25	
9	4	12	34	
10	14	8	28	
11	20	11	19	
12	2	7	31	
13	21	14	15	
14	32	5	13	
15	21	4	25	
16	00	6	44	
17	8	5	37	
18	3	8	39	
19	00	9	41	
20	00	17	33	
21	8	24	18	
22	00	14	36	



TABLE X (cont.)

NOUN RECALL	FRESHMEN			Lower Fifty Cases
	Correct	Wrong	Blank	
23	2	17	31	
24	00	12	38	
25	00	13	37	
26	1	7	42	
27	00	10	40	
28	00	7	43	
29	00	9	41	
30	12	23	15	
31	13	18	19	
32	00	7	43	
33	13	5	32	
34	32	12	6	
35	1	6	43	
36	28	11	11	
37	16	2	32	
38	1	6	43	
39	00	7	43	
40	00	18	32	
41	00	8	42	
42	6	8	36	
43	3	4	43	
44	00	9	41	



TABLE X (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
45	22	9	19
46	00	7	43
47	3	14	33
48	3	9	38
49	8	17	25
50	9	12	19
51	1	16	33
52	34	5	11
53	4	17	29
54	00	11	39
55	00	1	49
56	00	11	39
57	2	2	46
58	2	3	45
59	16	12	22
60	3	13	24
61	26	5	19
62	1	18	31
63	00	15	35
64	16	13	21
65	22	11	17
66	6	16	28



TABLE X (cont.)

<u>NOUN RECALL</u>	<u>FRESHMEN</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
67	8	19	23	
68	1	15	34	
69	10	10	30	
70	2	9	39	
71	2	4	44	
72	7	10	33	
73	6	11	33	
74	5	5	40	
75	2	22	26	
76	00	5	45	
77	3	6	41	
78	2	19	29	
79	3	16	31	
80	10	8	32	
81	1	12	37	
82	4	6	40	
83	00	9	41	
84	85	2	12	
85	2	12	36	
86	19	2	29	
87	2	13	35	
88	1	11	38	



Date		Description		Amount	
1900	Jan	1	Jan 1	100.00	100.00
		2	Jan 2	50.00	50.00
		3	Jan 3	25.00	25.00
		4	Jan 4	12.50	12.50
		5	Jan 5	6.25	6.25
		6	Jan 6	3.12	3.12
		7	Jan 7	1.56	1.56
		8	Jan 8	0.78	0.78
		9	Jan 9	0.39	0.39
		10	Jan 10	0.19	0.19
		11	Jan 11	0.09	0.09
		12	Jan 12	0.05	0.05
		13	Jan 13	0.02	0.02
		14	Jan 14	0.01	0.01
		15	Jan 15	0.00	0.00
		16	Jan 16	0.00	0.00
		17	Jan 17	0.00	0.00
		18	Jan 18	0.00	0.00
		19	Jan 19	0.00	0.00
		20	Jan 20	0.00	0.00
		21	Jan 21	0.00	0.00
		22	Jan 22	0.00	0.00
		23	Jan 23	0.00	0.00
		24	Jan 24	0.00	0.00
		25	Jan 25	0.00	0.00
		26	Jan 26	0.00	0.00
		27	Jan 27	0.00	0.00
		28	Jan 28	0.00	0.00
		29	Jan 29	0.00	0.00
		30	Jan 30	0.00	0.00
		31	Jan 31	0.00	0.00
		32	Jan 32	0.00	0.00
		33	Jan 33	0.00	0.00
		34	Jan 34	0.00	0.00
		35	Jan 35	0.00	0.00
		36	Jan 36	0.00	0.00
		37	Jan 37	0.00	0.00
		38	Jan 38	0.00	0.00
		39	Jan 39	0.00	0.00
		40	Jan 40	0.00	0.00
		41	Jan 41	0.00	0.00
		42	Jan 42	0.00	0.00
		43	Jan 43	0.00	0.00
		44	Jan 44	0.00	0.00
		45	Jan 45	0.00	0.00
		46	Jan 46	0.00	0.00
		47	Jan 47	0.00	0.00
		48	Jan 48	0.00	0.00
		49	Jan 49	0.00	0.00
		50	Jan 50	0.00	0.00
		51	Jan 51	0.00	0.00
		52	Jan 52	0.00	0.00
		53	Jan 53	0.00	0.00
		54	Jan 54	0.00	0.00
		55	Jan 55	0.00	0.00
		56	Jan 56	0.00	0.00
		57	Jan 57	0.00	0.00
		58	Jan 58	0.00	0.00
		59	Jan 59	0.00	0.00
		60	Jan 60	0.00	0.00
		61	Jan 61	0.00	0.00
		62	Jan 62	0.00	0.00
		63	Jan 63	0.00	0.00
		64	Jan 64	0.00	0.00
		65	Jan 65	0.00	0.00
		66	Jan 66	0.00	0.00
		67	Jan 67	0.00	0.00
		68	Jan 68	0.00	0.00
		69	Jan 69	0.00	0.00
		70	Jan 70	0.00	0.00
		71	Jan 71	0.00	0.00
		72	Jan 72	0.00	0.00
		73	Jan 73	0.00	0.00
		74	Jan 74	0.00	0.00
		75	Jan 75	0.00	0.00
		76	Jan 76	0.00	0.00
		77	Jan 77	0.00	0.00
		78	Jan 78	0.00	0.00
		79	Jan 79	0.00	0.00
		80	Jan 80	0.00	0.00
		81	Jan 81	0.00	0.00
		82	Jan 82	0.00	0.00
		83	Jan 83	0.00	0.00
		84	Jan 84	0.00	0.00
		85	Jan 85	0.00	0.00
		86	Jan 86	0.00	0.00
		87	Jan 87	0.00	0.00
		88	Jan 88	0.00	0.00
		89	Jan 89	0.00	0.00
		90	Jan 90	0.00	0.00
		91	Jan 91	0.00	0.00
		92	Jan 92	0.00	0.00
		93	Jan 93	0.00	0.00
		94	Jan 94	0.00	0.00
		95	Jan 95	0.00	0.00
		96	Jan 96	0.00	0.00
		97	Jan 97	0.00	0.00
		98	Jan 98	0.00	0.00
		99	Jan 99	0.00	0.00
		100	Jan 100	0.00	0.00

TABLE X (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>		<u>Lower Fifty Cases</u>	
	Correct	Wrong	Blank		
89	18	7	25		
90	2	14	34		
91	1	13	36		
92	1	8	41		
93	00	14	36		
94	7	13	30		
95	3	7	40		
96	14	5	31		
97	00	3	47		
98	2	4	44		
99	12	17	21		
100	00	9	41		
101	18	3	29		
102	29	1	20		
103	00	3	47		
104	1	5	44		
105	27	6	17		
106	17	2	31		
107	8	13	29		
108	13	13	24		
109	6	10	34		
110	00	3	47		

Table 1. Summary of data for the first 1000 cases.			
Case No.	Age (years)	Sex	Outcome
1	25	M	Recovered
2	30	F	Recovered
3	28	M	Recovered
4	35	F	Recovered
5	22	M	Recovered
6	32	F	Recovered
7	27	M	Recovered
8	38	F	Recovered
9	24	M	Recovered
10	31	F	Recovered
11	29	M	Recovered
12	33	F	Recovered
13	26	M	Recovered
14	36	F	Recovered
15	23	M	Recovered
16	34	F	Recovered
17	21	M	Recovered
18	37	F	Recovered
19	20	M	Recovered
20	39	F	Recovered
21	25	M	Recovered
22	30	F	Recovered
23	28	M	Recovered
24	35	F	Recovered
25	22	M	Recovered
26	32	F	Recovered
27	27	M	Recovered
28	38	F	Recovered
29	24	M	Recovered
30	31	F	Recovered
31	29	M	Recovered
32	33	F	Recovered
33	26	M	Recovered
34	36	F	Recovered
35	23	M	Recovered
36	34	F	Recovered
37	21	M	Recovered
38	37	F	Recovered
39	20	M	Recovered
40	39	F	Recovered
41	25	M	Recovered
42	30	F	Recovered
43	28	M	Recovered
44	35	F	Recovered
45	22	M	Recovered
46	32	F	Recovered
47	27	M	Recovered
48	38	F	Recovered
49	24	M	Recovered
50	31	F	Recovered
51	29	M	Recovered
52	33	F	Recovered
53	26	M	Recovered
54	36	F	Recovered
55	23	M	Recovered
56	34	F	Recovered
57	21	M	Recovered
58	37	F	Recovered
59	20	M	Recovered
60	39	F	Recovered
61	25	M	Recovered
62	30	F	Recovered
63	28	M	Recovered
64	35	F	Recovered
65	22	M	Recovered
66	32	F	Recovered
67	27	M	Recovered
68	38	F	Recovered
69	24	M	Recovered
70	31	F	Recovered
71	29	M	Recovered
72	33	F	Recovered
73	26	M	Recovered
74	36	F	Recovered
75	23	M	Recovered
76	34	F	Recovered
77	21	M	Recovered
78	37	F	Recovered
79	20	M	Recovered
80	39	F	Recovered
81	25	M	Recovered
82	30	F	Recovered
83	28	M	Recovered
84	35	F	Recovered
85	22	M	Recovered
86	32	F	Recovered
87	27	M	Recovered
88	38	F	Recovered
89	24	M	Recovered
90	31	F	Recovered
91	29	M	Recovered
92	33	F	Recovered
93	26	M	Recovered
94	36	F	Recovered
95	23	M	Recovered
96	34	F	Recovered
97	21	M	Recovered
98	37	F	Recovered
99	20	M	Recovered
100	39	F	Recovered

TABLE X (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>FRESHMEN</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
111	22	3	25
112	00	3	47
113	5	9	36
114	6	20	24
115	1	2	47

Date		Description		Amount	
Month	Day	Particulars	Debit	Credit	Balance
Jan	1	Balance forward			100.00
Jan	5	By Cash	50.00		150.00
Jan	10	To Cash		20.00	130.00
Jan	15	By Cash	30.00		160.00
Jan	20	To Cash		10.00	150.00
Jan	25	By Cash	20.00		170.00
Jan	31	To Cash		5.00	165.00

TABLE XI

<u>NOUN RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
1	32	16	2	
2	40	5	5	
3	47	2	1	
4	49	00	1	
5	43	2	5	
6	44	2	4	
7	47	1	2	
8	44	3	2	
9	13	15	22	
10	36	9	5	
11	47	2	1	
12	8	19	23	
13	49	1	00	
14	41	00	9	
15	42	3	5	
16	11	7	32	
17	46	2	2	
18	38	5	7	
19	1	25	24	
20	00	36	14	
21	47	2	1	
22	5	32	13	

Table 1			
Summary of Data			
Year	Month	Day	Value
1990	1	1	1.0
1990	2	1	2.0
1990	3	1	3.0
1990	4	1	4.0
1990	5	1	5.0
1990	6	1	6.0
1990	7	1	7.0
1990	8	1	8.0
1990	9	1	9.0
1990	10	1	10.0
1990	11	1	11.0
1990	12	1	12.0
1991	1	1	13.0
1991	2	1	14.0
1991	3	1	15.0
1991	4	1	16.0
1991	5	1	17.0
1991	6	1	18.0
1991	7	1	19.0
1991	8	1	20.0
1991	9	1	21.0
1991	10	1	22.0
1991	11	1	23.0
1991	12	1	24.0
1992	1	1	25.0
1992	2	1	26.0
1992	3	1	27.0
1992	4	1	28.0
1992	5	1	29.0
1992	6	1	30.0
1992	7	1	31.0
1992	8	1	32.0
1992	9	1	33.0
1992	10	1	34.0
1992	11	1	35.0
1992	12	1	36.0
1993	1	1	37.0
1993	2	1	38.0
1993	3	1	39.0
1993	4	1	40.0
1993	5	1	41.0
1993	6	1	42.0
1993	7	1	43.0
1993	8	1	44.0
1993	9	1	45.0
1993	10	1	46.0
1993	11	1	47.0
1993	12	1	48.0
1994	1	1	49.0
1994	2	1	50.0
1994	3	1	51.0
1994	4	1	52.0
1994	5	1	53.0
1994	6	1	54.0
1994	7	1	55.0
1994	8	1	56.0
1994	9	1	57.0
1994	10	1	58.0
1994	11	1	59.0
1994	12	1	60.0
1995	1	1	61.0
1995	2	1	62.0
1995	3	1	63.0
1995	4	1	64.0
1995	5	1	65.0
1995	6	1	66.0
1995	7	1	67.0
1995	8	1	68.0
1995	9	1	69.0
1995	10	1	70.0
1995	11	1	71.0
1995	12	1	72.0
1996	1	1	73.0
1996	2	1	74.0
1996	3	1	75.0
1996	4	1	76.0
1996	5	1	77.0
1996	6	1	78.0
1996	7	1	79.0
1996	8	1	80.0
1996	9	1	81.0
1996	10	1	82.0
1996	11	1	83.0
1996	12	1	84.0
1997	1	1	85.0
1997	2	1	86.0
1997	3	1	87.0
1997	4	1	88.0
1997	5	1	89.0
1997	6	1	90.0
1997	7	1	91.0
1997	8	1	92.0
1997	9	1	93.0
1997	10	1	94.0
1997	11	1	95.0
1997	12	1	96.0
1998	1	1	97.0
1998	2	1	98.0
1998	3	1	99.0
1998	4	1	100.0
1998	5	1	101.0
1998	6	1	102.0
1998	7	1	103.0
1998	8	1	104.0
1998	9	1	105.0
1998	10	1	106.0
1998	11	1	107.0
1998	12	1	108.0
1999	1	1	109.0
1999	2	1	110.0
1999	3	1	111.0
1999	4	1	112.0
1999	5	1	113.0
1999	6	1	114.0
1999	7	1	115.0
1999	8	1	116.0
1999	9	1	117.0
1999	10	1	118.0
1999	11	1	119.0
1999	12	1	120.0

TABLE XI (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>	<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
23	25	16	9
24	23	16	11
25	5	26	19
26	23	10	17
27	9	13	18
28	1	10	39
29	32	5	13
30	21	26	3
31	30	14	6
32	16	6	28
33	49	00	1
34	46	2	2
35	31	1	18
36	42	5	3
37	33	00	17
38	14	19	17
39	9	16	25
40	22	16	12
41	12	13	25
42	33	2	15
43	11	9	30
44	11	25	14



Date		Description		Amount	
Month	Year	Particulars	Debit	Credit	Balance
Jan	1900	By Balance		100.00	100.00
		To Cash	50.00		50.00
		To Cash	25.00		25.00
		To Cash	10.00		15.00
		To Cash	15.00		30.00
		To Cash	10.00		40.00
		To Cash	15.00		55.00
		To Cash	10.00		65.00
		To Cash	15.00		80.00
		To Cash	10.00		90.00
		To Cash	10.00		100.00
		To Cash	10.00		110.00
		To Cash	10.00		120.00
		To Cash	10.00		130.00
		To Cash	10.00		140.00
		To Cash	10.00		150.00
		To Cash	10.00		160.00
		To Cash	10.00		170.00
		To Cash	10.00		180.00
		To Cash	10.00		190.00
		To Cash	10.00		200.00
		To Cash	10.00		210.00
		To Cash	10.00		220.00
		To Cash	10.00		230.00
		To Cash	10.00		240.00
		To Cash	10.00		250.00
		To Cash	10.00		260.00
		To Cash	10.00		270.00
		To Cash	10.00		280.00
		To Cash	10.00		290.00
		To Cash	10.00		300.00
		To Cash	10.00		310.00
		To Cash	10.00		320.00
		To Cash	10.00		330.00
		To Cash	10.00		340.00
		To Cash	10.00		350.00
		To Cash	10.00		360.00
		To Cash	10.00		370.00
		To Cash	10.00		380.00
		To Cash	10.00		390.00
		To Cash	10.00		400.00
		To Cash	10.00		410.00
		To Cash	10.00		420.00
		To Cash	10.00		430.00
		To Cash	10.00		440.00
		To Cash	10.00		450.00
		To Cash	10.00		460.00
		To Cash	10.00		470.00
		To Cash	10.00		480.00
		To Cash	10.00		490.00
		To Cash	10.00		500.00
		To Cash	10.00		510.00
		To Cash	10.00		520.00
		To Cash	10.00		530.00
		To Cash	10.00		540.00
		To Cash	10.00		550.00
		To Cash	10.00		560.00
		To Cash	10.00		570.00
		To Cash	10.00		580.00
		To Cash	10.00		590.00
		To Cash	10.00		600.00
		To Cash	10.00		610.00
		To Cash	10.00		620.00
		To Cash	10.00		630.00
		To Cash	10.00		640.00
		To Cash	10.00		650.00
		To Cash	10.00		660.00
		To Cash	10.00		670.00
		To Cash	10.00		680.00
		To Cash	10.00		690.00
		To Cash	10.00		700.00
		To Cash	10.00		710.00
		To Cash	10.00		720.00
		To Cash	10.00		730.00
		To Cash	10.00		740.00
		To Cash	10.00		750.00
		To Cash	10.00		760.00
		To Cash	10.00		770.00
		To Cash	10.00		780.00
		To Cash	10.00		790.00
		To Cash	10.00		800.00
		To Cash	10.00		810.00
		To Cash	10.00		820.00
		To Cash	10.00		830.00
		To Cash	10.00		840.00
		To Cash	10.00		850.00
		To Cash	10.00		860.00
		To Cash	10.00		870.00
		To Cash	10.00		880.00
		To Cash	10.00		890.00
		To Cash	10.00		900.00
		To Cash	10.00		910.00
		To Cash	10.00		920.00
		To Cash	10.00		930.00
		To Cash	10.00		940.00
		To Cash	10.00		950.00
		To Cash	10.00		960.00
		To Cash	10.00		970.00
		To Cash	10.00		980.00
		To Cash	10.00		990.00
		To Cash	10.00		1000.00

TABLE XI (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
45	43	4	3	
46	28	10	12	
47	41	6	3	
48	34	8	8	
49	41	7	2	
50	37	11	2	
51	28	10	12	
52	49	00	1	
53	32	9	9	
54	2	16	32	
55	8	6	36	
56	7	14	29	
57	6	14	30	
58	29	8	13	
59	45	00	5	
60	4	36	10	
61	50	00	00	
62	7	32	11	
63	13	28	9	
64	42	5	3	
65	41	6	3	
66	45	3	2	



TABLE XI (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Upper</u> <u>Fifty</u> <u>Cases</u>
	Correct	Wrong	Blank	
67	20	27	3	
68	3	14	33	
69	42	7	1	
70	14	15	21	
71	12	15	23	
72	45	1	4	
73	40	5	5	
74	27	14	9	
75	26	9	15	
76	7	25	18	
77	35	6	9	
78	22	23	5	
79	19	24	7	
80	49	00	1	
81	23	20	7	
82	33	8	9	
83	12	26	12	
84	34	7	9	
85	3	18	29	
86	49	00	1	
87	38	11	1	
88	15	8	27	

GENERAL INFORMATION			
NAME	DATE	TIME	LOCATION
1	10/10/10	10:00	1000
2	10/10/10	10:00	1000
3	10/10/10	10:00	1000
4	10/10/10	10:00	1000
5	10/10/10	10:00	1000
6	10/10/10	10:00	1000
7	10/10/10	10:00	1000
8	10/10/10	10:00	1000
9	10/10/10	10:00	1000
10	10/10/10	10:00	1000
11	10/10/10	10:00	1000
12	10/10/10	10:00	1000
13	10/10/10	10:00	1000
14	10/10/10	10:00	1000
15	10/10/10	10:00	1000
16	10/10/10	10:00	1000
17	10/10/10	10:00	1000
18	10/10/10	10:00	1000
19	10/10/10	10:00	1000
20	10/10/10	10:00	1000
21	10/10/10	10:00	1000
22	10/10/10	10:00	1000
23	10/10/10	10:00	1000
24	10/10/10	10:00	1000
25	10/10/10	10:00	1000
26	10/10/10	10:00	1000
27	10/10/10	10:00	1000
28	10/10/10	10:00	1000
29	10/10/10	10:00	1000
30	10/10/10	10:00	1000
31	10/10/10	10:00	1000
32	10/10/10	10:00	1000
33	10/10/10	10:00	1000
34	10/10/10	10:00	1000
35	10/10/10	10:00	1000
36	10/10/10	10:00	1000
37	10/10/10	10:00	1000
38	10/10/10	10:00	1000
39	10/10/10	10:00	1000
40	10/10/10	10:00	1000
41	10/10/10	10:00	1000
42	10/10/10	10:00	1000
43	10/10/10	10:00	1000
44	10/10/10	10:00	1000
45	10/10/10	10:00	1000
46	10/10/10	10:00	1000
47	10/10/10	10:00	1000
48	10/10/10	10:00	1000
49	10/10/10	10:00	1000
50	10/10/10	10:00	1000
51	10/10/10	10:00	1000
52	10/10/10	10:00	1000
53	10/10/10	10:00	1000
54	10/10/10	10:00	1000
55	10/10/10	10:00	1000
56	10/10/10	10:00	1000
57	10/10/10	10:00	1000
58	10/10/10	10:00	1000
59	10/10/10	10:00	1000
60	10/10/10	10:00	1000
61	10/10/10	10:00	1000
62	10/10/10	10:00	1000
63	10/10/10	10:00	1000
64	10/10/10	10:00	1000
65	10/10/10	10:00	1000
66	10/10/10	10:00	1000
67	10/10/10	10:00	1000
68	10/10/10	10:00	1000
69	10/10/10	10:00	1000
70	10/10/10	10:00	1000
71	10/10/10	10:00	1000
72	10/10/10	10:00	1000
73	10/10/10	10:00	1000
74	10/10/10	10:00	1000
75	10/10/10	10:00	1000
76	10/10/10	10:00	1000
77	10/10/10	10:00	1000
78	10/10/10	10:00	1000
79	10/10/10	10:00	1000
80	10/10/10	10:00	1000
81	10/10/10	10:00	1000
82	10/10/10	10:00	1000
83	10/10/10	10:00	1000
84	10/10/10	10:00	1000
85	10/10/10	10:00	1000
86	10/10/10	10:00	1000
87	10/10/10	10:00	1000
88	10/10/10	10:00	1000
89	10/10/10	10:00	1000
90	10/10/10	10:00	1000
91	10/10/10	10:00	1000
92	10/10/10	10:00	1000
93	10/10/10	10:00	1000
94	10/10/10	10:00	1000
95	10/10/10	10:00	1000
96	10/10/10	10:00	1000
97	10/10/10	10:00	1000
98	10/10/10	10:00	1000
99	10/10/10	10:00	1000
100	10/10/10	10:00	1000

TABLE XI (cont.)

<u>NOUN RECALL</u>	<u>JUNIOR CLASS</u>		<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank
89	41	4	5
90	33	10	7
91	6	19	25
92	39	5	6
93	00	28	22
94	26	16	8
95	39	3	8
96	30	7	13
97	00	6	44
98	20	23	7
99	48	00	2
100	8	29	13
101	41	2	7
102	46	00	4
103	3	14	33
104	8	15	27
105	48	00	2
106	46	1	3
107	46	00	4
108	37	10	3
109	44	2	4
110	3	8	39

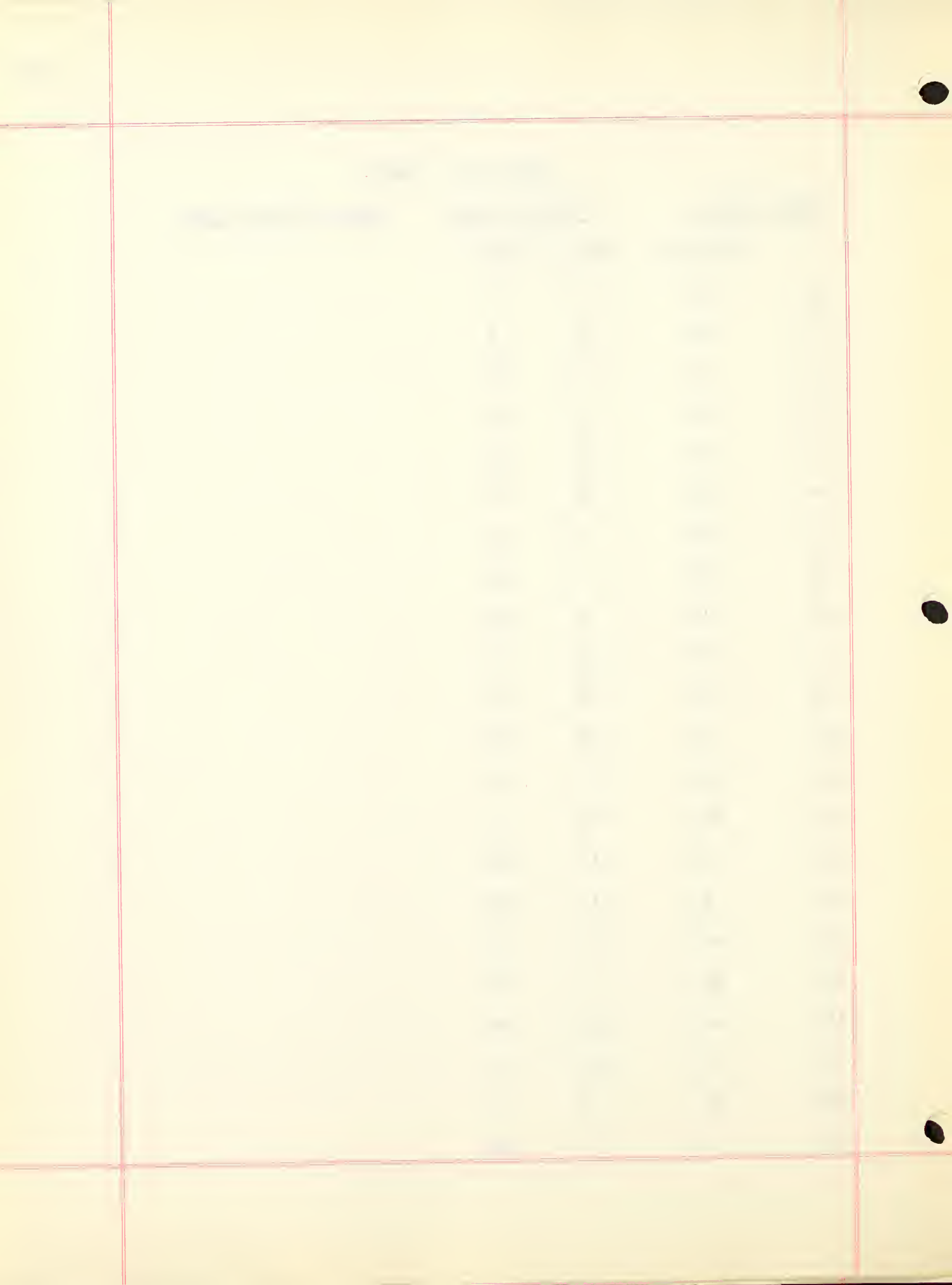


TABLE XI (cont.)

<u>NOUN RECALL</u>	<u>JUNIOR CLASS</u>			<u>Upper Fifty Cases</u>
	Correct	Wrong	Blank	
111	44	1	5	
112	13	2	35	
113	8	29	13	
114	20	19	11	
115	18	7	25	





TABLE XII

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
1	17	30	3	
2	14	21	15	
3	37	12	1	
4	39	3	8	
5	5	18	27	
6	37	4	9	
7	41	3	6	
8	30	4	16	
9	2	20	28	
10	21	10	19	
11	32	5	13	
12	00	14	36	
13	29	12	9	
14	29	7	14	
15	27	11	12	
16	00	17	33	
17	15	5	30	
18	3	14	33	
19	00	19	31	
20	1	21	28	
21	20	18	12	
22	00	24	26	



TABLE XII (cont.)

<u>NOUN RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
23	7	30	13	
24	6	21	23	
25	2	<del>21</del>	27	
26	4	15	31	
27	3	18	29	
28	00	16	34	
29	4	11	35	
30	21	18	11	
31	11	19	20	
32	3	13	34	
33	21	2	27	
34	42	3	5	
35	3	5	42	
36	34	8	8	
37	14	1	35	
38	1	13	36	
39	1	20	29	
40	2	19	29	
41	1	12	37	
42	9	8	33	
43	1	9	40	
44	5	16	29	



TABLE XII (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
45	30	6	14	
46	2	21	27	
47	13	20	17	
48	9	14	27	
49	8	18	24	
50	7	17	26	
51	7	20	23	
52	35	1	14	
53	11	16	23	
54	1	14	35	
55	1	2	47	
56	00	15	35	
57	1	5	44	
58	4	13	33	
59	17	12	<b>21</b>	
60	4	19	27	
61	38	1	11	
62	00	28	22	
63	1	22	27	
64	18	12	20	
65	30	8	12	
66	9	10	31	

TABLE 1. - SUMMARY OF DATA			
STATION	DATE	TIME	WIND
1	1/1/58	0800	10
2	1/1/58	1200	15
3	1/1/58	1600	20
4	1/1/58	2000	25
5	1/1/58	2400	30
6	1/2/58	0000	35
7	1/2/58	0400	40
8	1/2/58	0800	45
9	1/2/58	1200	50
10	1/2/58	1600	55
11	1/2/58	2000	60
12	1/2/58	2400	65
13	1/3/58	0000	70
14	1/3/58	0400	75
15	1/3/58	0800	80
16	1/3/58	1200	85
17	1/3/58	1600	90
18	1/3/58	2000	95
19	1/3/58	2400	100
20	1/4/58	0000	105
21	1/4/58	0400	110
22	1/4/58	0800	115
23	1/4/58	1200	120
24	1/4/58	1600	125
25	1/4/58	2000	130
26	1/4/58	2400	135
27	1/5/58	0000	140
28	1/5/58	0400	145
29	1/5/58	0800	150
30	1/5/58	1200	155
31	1/5/58	1600	160
32	1/5/58	2000	165
33	1/5/58	2400	170
34	1/6/58	0000	175
35	1/6/58	0400	180
36	1/6/58	0800	185
37	1/6/58	1200	190
38	1/6/58	1600	195
39	1/6/58	2000	200
40	1/6/58	2400	205
41	1/7/58	0000	210
42	1/7/58	0400	215
43	1/7/58	0800	220
44	1/7/58	1200	225
45	1/7/58	1600	230
46	1/7/58	2000	235
47	1/7/58	2400	240
48	1/8/58	0000	245
49	1/8/58	0400	250
50	1/8/58	0800	255
51	1/8/58	1200	260
52	1/8/58	1600	265
53	1/8/58	2000	270
54	1/8/58	2400	275
55	1/9/58	0000	280
56	1/9/58	0400	285
57	1/9/58	0800	290
58	1/9/58	1200	295
59	1/9/58	1600	300
60	1/9/58	2000	305
61	1/9/58	2400	310
62	1/10/58	0000	315
63	1/10/58	0400	320
64	1/10/58	0800	325
65	1/10/58	1200	330
66	1/10/58	1600	335
67	1/10/58	2000	340
68	1/10/58	2400	345
69	1/11/58	0000	350
70	1/11/58	0400	355
71	1/11/58	0800	360
72	1/11/58	1200	365
73	1/11/58	1600	370
74	1/11/58	2000	375
75	1/11/58	2400	380
76	1/12/58	0000	385
77	1/12/58	0400	390
78	1/12/58	0800	395
79	1/12/58	1200	400
80	1/12/58	1600	405
81	1/12/58	2000	410
82	1/12/58	2400	415
83	1/13/58	0000	420
84	1/13/58	0400	425
85	1/13/58	0800	430
86	1/13/58	1200	435
87	1/13/58	1600	440
88	1/13/58	2000	445
89	1/13/58	2400	450
90	1/14/58	0000	455
91	1/14/58	0400	460
92	1/14/58	0800	465
93	1/14/58	1200	470
94	1/14/58	1600	475
95	1/14/58	2000	480
96	1/14/58	2400	485
97	1/15/58	0000	490
98	1/15/58	0400	495
99	1/15/58	0800	500
100	1/15/58	1200	505

TABLE XII (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>		<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank	
67	7	24	19	
68	2	16	32	
69	13	16	21	
70	2	19	29	
71	00	9	41	
72	16	13	21	
73	20	8	22	
74	12	11	27	
75	15	15	20	
76	00	15	35	
77	10	6	34	
78	5	23	22	
79	11	19	20	
80	19	10	21	
81	11	19	20	
82	5	18	27	
83	1	22	27	
84	10	12	28	
85	2	11	37	
86	22	9	19	
87	6	18	26	
88	00	12	38	





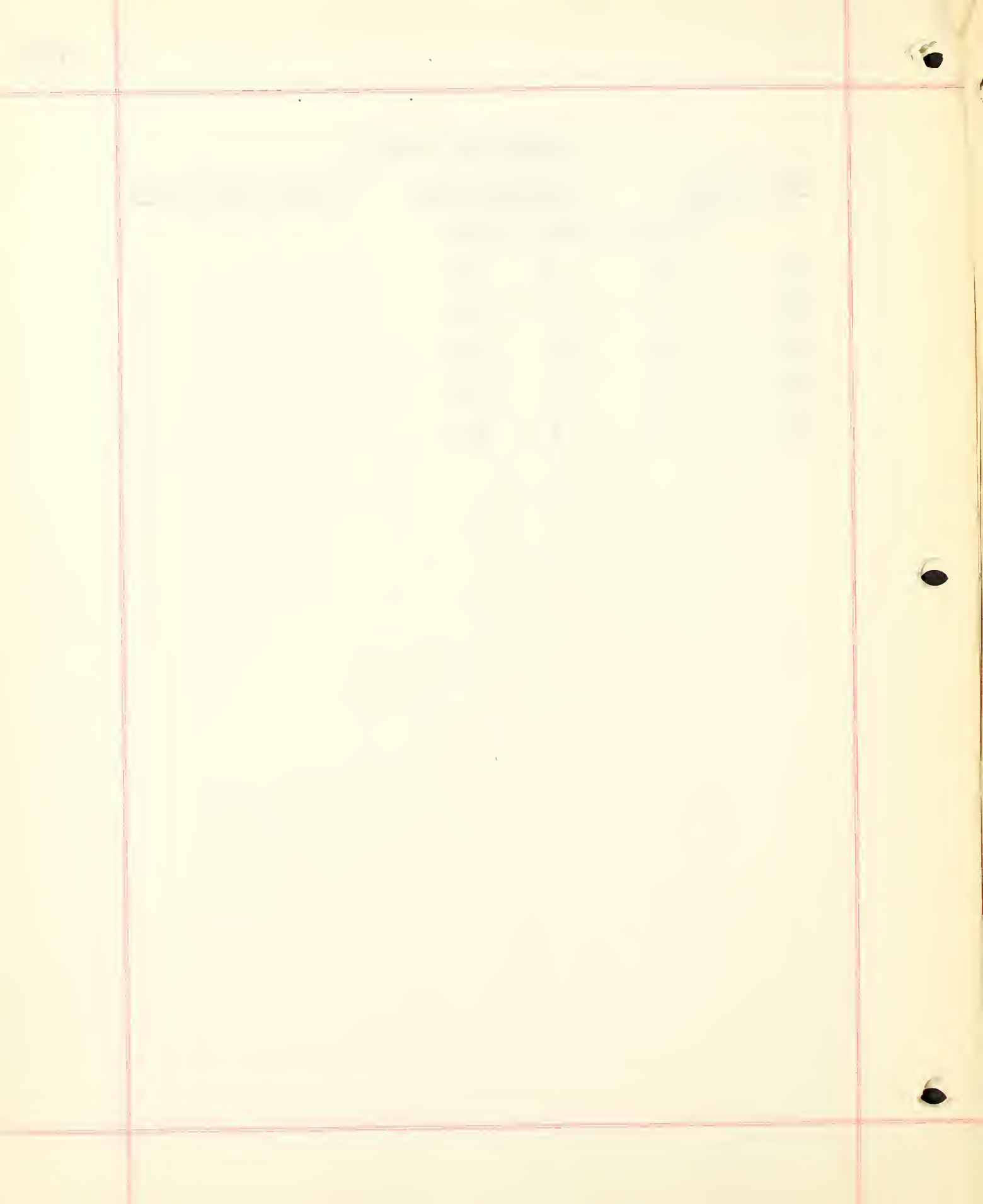
TABLE XII (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>	<u>Lower Fifty Cases</u>
	Correct	Wrong	Blank
89	18	9	23
90	2	18	30
91	3	11	36
92	5	8	37
93	00	12	38
94	7	11	32
95	3	11	36
96	16	9	25
97	00	4	46
98	1	10	39
99	6	12	32
100	1	9	40
101	18	6	26
102	28	00	22
103	00	6	44
104	00	6	44
105	25	2	23
106	21	4	25
107	16	6	28
108	9	16	25
109	4	9	37
110	1	6	43

Table 1			
Year	1990	1991	1992
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
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60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	100
98	100	100	100
99	100	100	100
100	100	100	100

TABLE XII (cont.)

<u>NOUN</u>	<u>RECALL</u>	<u>JUNIOR CLASS</u>			<u>Lower Fifty Cases</u>		
	Correct	Wrong	Blank				
111	21	2	27				
112	2	4	44				
113	3	12	35				
114	8	17	25				
115	1	6	43				



Name Wessington Sex Male Age 16 Date of Birth April 10, 1922  
School Wessington High School Year in School 14 Year in English 2  
Average Grade in English or Literature and Reading 85 Time to take test 1 hour  
How well do you read? Fair ✓ Average ✓ Excellent ✓

### VOCABULARY TEST — ADJECTIVES (*Recall*)

This is a test to find out how well you recall or remember the exact words suggested by a phrase.

Read the word at the top of each section. Then read each phrase and try to think of a single word to describe the person or thing referred to in the phrase. Your single word will be a synonym of the top word in a section. Write your word in the blank after the correct phrase. Spell it as well as you can but be sure to write plainly.

The following sample is marked correctly according to Webster's International and Synonym dictionaries. Study each item and be sure you understand what to do.

---

#### I. YELLOW

- |  |                 |
|--|-----------------|
| 1. A person said to have a yellow streak down his backbone   | <u>cowardly</u> |
| 2. A picture frame covered with a coat of gold-colored paint | <u>gilded</u>   |
| 3. The pale, yellowish skin of a sickly person               | <u>sallow</u>   |
| 4. Fair, flowing blond hair                                  | <u>flaxen</u>   |
| 5. Yellowish-brown or fawn colored hair or beard             | <u>tawny</u>    |
- 

Answers must be single words. Answers must be different from any word used in the phrases of a section. Every answer will be different because every phrase was written about a different person or thing. Each answer will be the exact word to convey the most precise meaning of a phrase. Avoid slang or vulgar words.

Work as fast as you can. Do first the items which are easy for you. Write as plainly as possible. Spell according to the way a word sounds to you if you have heard it pronounced. Credit will be given for any spelling which indicates that you have the correct word in mind.

Be sure to take plenty of time to think about each phrase. It may help you to list quickly all the different synonyms you can recall for the top word of a section.

If you wish to change an answer, cross it out and write a second answer.

Are there any questions

Wait for your teacher to tell you when to start the test.



## I. VISIBLE

1. A hat or necktie that is noticeable because of bright color, size or shape
2. A fact or object that is plainly seen by the eye or readily understood
3. A prominent and important or significant fact, detail or feature of a situation
4. Something so evident that it attracts attention enough to be readily observed
5. Something that is evident to the senses as well as the mind
6. A very bad error or mistake that stands out boldly
7. A picture with objects that are clear and plain

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\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## II. GREEN

8. A very young or new and untrained worker
9. The brilliant green color of a precious stone
10. A trusting person who is readily deceived or imposed upon
11. Vegetables or other foods which are not cooked
12. Naive people, unsophisticated in spite of their age and experience
13. The greenish-yellow color of a small oval-shaped fruit or the name of a tree
14. Delicate, weak young plants like very small lettuce with tiny leaves
15. Events taking place within the last few weeks or days

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## III. HARD

16. The ice in a bucket where the water has completely frozen
17. Candy like taffy or caramel which has hardened too much to be pulled or worked
18. A metal band or bar that cannot be bent or twisted
19. Soldiers experienced in hard fighting at the front lines of battle
20. A problem that requires deep study and expert knowledge for its solution
21. A person whose mind is difficult if not impossible to change

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## IV. IMAGINATIVE

22. A poem or story that is new, fresh and novel
23. Extremely fanciful plans formulated in dreams but almost impossible to realize
24. An invented or imaginary tale originally associated with religious rites
25. Schemes that are absurd, nonsensical and contrary to reason or nature
26. A story that is not real or genuine
27. A story or poem with quaint humor
28. Actions or deeds that are wild, excessive and unrestrained

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## V. OLD

- 29. A man who is a persistent smoker from long, continuous practice \_\_\_\_\_
  - 30. Something that existed or happened long, long, long ago \_\_\_\_\_
  - 31. A law or custom handed down from generation to generation \_\_\_\_\_
  - 32. Something that existed or occurred before any written records were kept \_\_\_\_\_
  - 33. Something that existed or happened during the Middle Ages \_\_\_\_\_
  - 34. An old man who deserves great honor and respect \_\_\_\_\_
  - 35. Old bread or cake that has lost its flavor \_\_\_\_\_
  - 36. The foul, still water in a pond without an inlet or outlet \_\_\_\_\_
- 

## VI. POOR

- 37. A person who lacks the ability, strength or training to do a job well \_\_\_\_\_
  - 38. Very old or well worn clothes that lack freshness and brightness of color \_\_\_\_\_
  - 39. A person who is very simple and modest \_\_\_\_\_
  - 40. Very poor land with little or no plant life or vegetation \_\_\_\_\_
  - 41. A business or a person who is unable to pay honest debts \_\_\_\_\_
  - 42. A needy person who lacks both property and means of making a living \_\_\_\_\_
  - 43. A gaunt and haggard person who is wasted by disease or worry \_\_\_\_\_
  - 44. Unnecessary information which does not apply directly to a case or problem \_\_\_\_\_
- 

## VII. VARIEGATED

- 45. Horses or fawns marked with small grayish-colored spots \_\_\_\_\_
  - 46. A person's face covered with small brown spots, brought out by the sun \_\_\_\_\_
  - 47. Horses marked with spots and patches of black and white as well as other colors \_\_\_\_\_
  - 48. A trout or other fish marked with spots of different colors \_\_\_\_\_
  - 49. Wood or grass with blotches of many different colors \_\_\_\_\_
  - 50. Farming by which a number of different crops are raised during the year \_\_\_\_\_
  - 51. A grayish or brownish-colored dog or cow with darker streaks and spots \_\_\_\_\_
  - 52. Glass or soap bubbles with changing shades of color in the light \_\_\_\_\_
- 

## VIII. SAFE

- 53. A reliable person who proves trustworthy time after time \_\_\_\_\_
  - 54. A fort or fortress that cannot be taken by an ordinary attack \_\_\_\_\_
  - 55. A wise and judicious person in practical affairs \_\_\_\_\_
  - 56. A simple, harmless, unoffending person who never accomplishes very much \_\_\_\_\_
  - 57. A position or viewpoint that can be maintained and defended without embarrassment \_\_\_\_\_
-

## IX. HEAVY

- 58. A very large, heavy, solidly built church or similar edifice \_\_\_\_\_
  - 59. Bread or cake that is heavy because it did not rise or was half-baked \_\_\_\_\_
  - 60. A tired, sleepy person with heavy eyelids \_\_\_\_\_
  - 61. The tragic and disappointing part of a character in a play \_\_\_\_\_
  - 62. A strong, loud but pleasing voice which can be heard easily \_\_\_\_\_
  - 63. An awkward person who is heavy on his feet \_\_\_\_\_
  - 64. Cloth woven of heavy, rough yarns or thread \_\_\_\_\_
  - 65. A forest or grove with a heavy stand of trees and some underbrush \_\_\_\_\_
  - 66. A person who is heavy-hearted and discouraged \_\_\_\_\_
  - 67. The supply of food or clothes which have been furnished in great quantities \_\_\_\_\_
- 

## X. KIND

- 68. A person who is tender and sympathetic in his treatment of animals as well as people \_\_\_\_\_
  - 69. A very patient person who endures injustice without seeking revenge \_\_\_\_\_
  - 70. A warm sunny climate that is good for a person in poor health \_\_\_\_\_
  - 71. A person who gives liberally to the poor and is slow to judge other people \_\_\_\_\_
  - 72. A father who pampers his children and overlooks all their weaknesses \_\_\_\_\_
  - 73. A person who strives to please other people by being extremely helpful \_\_\_\_\_
  - 74. A person who is free from prejudice and liberal about various beliefs \_\_\_\_\_
- 

## XI. CUNNING

- 75. A foxy person who plans and plots events usually for selfish purposes \_\_\_\_\_
  - 76. A shrewd, very tactful person who manages to get along well with other people \_\_\_\_\_
  - 77. A clever, capable person who can work without attracting attention to himself \_\_\_\_\_
  - 78. An insincere, tricky person who deliberately plans to mislead other people \_\_\_\_\_
  - 79. An artful, crafty person who is a shrewd observer of practical affairs \_\_\_\_\_
  - 80. A sly, treacherous person who plots to ensnare and entrap other people \_\_\_\_\_
- 

## XII. ACTIVE

- 81. A woman who is quick-witted, light-hearted and spirited \_\_\_\_\_
  - 82. A person who assumes much authority and forces his services on people \_\_\_\_\_
  - 83. A young, playful, romping puppy that runs and capers \_\_\_\_\_
  - 84. A confident, forceful and persistent salesman who goes out to get the business \_\_\_\_\_
  - 85. An extremely capable and very forceful person who influences many people \_\_\_\_\_
  - 86. A person who works doggedly to complete a job he has begun \_\_\_\_\_
-

### XIII. MILD

- 87. The climate in territory between the Arctic Circle and Mexico \_\_\_\_\_
  - 88. A person who is easily moved by the suffering and hardships of others \_\_\_\_\_
  - 89. A pleasant and cheerful or jovial person, pictured as a successful host \_\_\_\_\_
  - 90. A patient, modest and extremely gentle person \_\_\_\_\_
  - 91. A diet of soft, smooth and soothing foods \_\_\_\_\_
  - 92. A mild, refreshing spring day, heavy with the scent of many flowers \_\_\_\_\_
  - 93. A salve or cream that softens and soothes the skin \_\_\_\_\_
  - 94. A very tractable employee who submits readily to the authority of superiors \_\_\_\_\_
  - 95. Mild food or drinks which are so tasteless that they fail to satisfy the appetite \_\_\_\_\_
  - 96. A well-ripened apple with soft pulp and sweet flavor \_\_\_\_\_
  - 97. The quiet, peaceful undisturbed water of a lake on a calm day \_\_\_\_\_
  - 98. A soft-spoken and affable person with urbanely persuasive manners \_\_\_\_\_
- 

### XIV. HEATED

- 99. The climate of countries lying on the equator \_\_\_\_\_
  - 100. An appealing speech that shows deep and sincere feeling \_\_\_\_\_
  - 101. A fire that burns and smokes without a flame \_\_\_\_\_
  - 102. The heat on a damp and hot or sultry day when people breathe with difficulty \_\_\_\_\_
  - 103. Water that feels lukewarm to one's hand \_\_\_\_\_
  - 104. A devoted supporter of a political party who shows intense feeling for the cause \_\_\_\_\_
  - 105. A wound or an eye that becomes irritated and infected \_\_\_\_\_
  - 106. A rashly energetic person who dashes eagerly and headlong into action \_\_\_\_\_
  - 107. An impatient person who is easily exasperated and vexed or angered \_\_\_\_\_
- 

### XV. ROUGH

- 108. The wild living of a group of gay and unrestrained people \_\_\_\_\_
  - 109. The harsh, grating voice of a person with a cold harsh \_\_\_\_\_
  - 110. Rough, stormy, exceedingly unpleasant and unmerciful weather \_\_\_\_\_
  - 111. An estimated answer that approaches the correct sum or total number \_\_\_\_\_
  - 112. Packing paper folded so that it has alternate ridges and grooves \_\_\_\_\_
  - 113. The troubled waters when a heavy storm whips an ocean or a lake \_\_\_\_\_
  - 114. Rough ground that is difficult to walk across \_\_\_\_\_
  - 115. A man with tousled hair, shaggy beard and baggy clothes \_\_\_\_\_
-

V-310

Name Salvy Del Greco Sex M Age 19 Date of Birth Apr 24, 1927  
 School Revere High Year in School HT Year in English 505  
 Average grade in English or Literature and Reading 75 Time to take test 8:50 - 9:25  
 How well do you read? Fair Good ☒ Excellent

VOCABULARY TEST — VERB (Recall) ☒

This is a test to find out how well you recall or remember the exact word suggested by a phrase.

Read the word at the top of each section. Then read each phrase and try to think of a single word which expresses the same or nearly the same meaning as the phrase. The single word will be a synonym of the top word for a section. Write your word in the blank after the correct phrase. Spell it as well as you can but write plainly.

The following sample is marked correctly according to Webster's International and Synonym dictionaries. Study each item and be sure you understand what to do.

I. PLACE

1. To place or put money in the bank to one's account	<u>deposit</u>
2. To lay away vegetables and other foods for winter use	<u>store</u>
3. To set a large machine in place and fix for service in a factory	<u>install</u>
4. To initiate and assign a man to a position in Christian ministry	<u>ordain</u>
5. To establish homes in a district as the pioneers did in new country	<u>settle</u>

Answers must be single words that are different from any word used in a section. All answers will be different because every phrase was written to describe or explain a different word. Each answer will be the exact word to convey the most precise meaning of a phrase. Do not write slang words.

Work as fast as you can. Do first the exercises which are easy for you. Write as plainly as possible. Spell according to the way a word sounds if you have heard it pronounced. Credit will be given for any spelling which indicates that you have the correct word in mind.

Be sure to give yourself plenty of time to think about each phrase. It may help you to list quickly all the different synonyms you can recall for the top word of a section.

If you wish to change an answer, cross it out and write a second answer.

Are there any questions?

Wait for your teacher to tell you when to start the test.





## I. NEGLECT

1. To pass over or go by something without noticing or even seeing it
2. To neglect something because of failing to recall or remember it
3. To fail to find or receive or attain or hit something
4. To pass over and omit something because of chance or carelessness
5. To suspend a meeting for a brief period of time as Congress does each year
6. To put off action habitually and delay from day to day in a careless fashion
7. To delay or put off a scheduled meeting for a definite period of time
8. To snub, cut, or treat a person with disdain and indifference
9. To disregard wilfully and refuse to take notice of something
10. To slide or slip over a letter in a word or a note in music without due emphasis

omit  
neglect  
miss  
skip  
suspend  
delay  
postpone  
snub  
disregard  
slide

## II. TAKE

11. To take or pull the feathers from a fowl or bird
12. To take a person in one's arms and hug him
13. To grab and hold a player in football in order to stop him
14. To seize a person's property and force him to forfeit it to the state
15. To seize and hold by force of arms, a throne or a public office
16. To seize and take a person to jail because of misconduct or a crime
17. To grab or seize a purse suddenly and steal it away from its owner
18. To seize and hold (by the police) a car which was parked incorrectly
19. To kidnap a child or an important person and carry him off secretly
20. To defeat and take control of a country by force of arms
21. To agree to take and pay for a magazine for a given length of time

striking  
take  
grab  
seize  
scratch  
kidnap

## III. MOVE

22. To move in a fast, springing gait by leaps and bounds like a horse
23. To move in a quick, jogging pace like a horse or dog
24. To move in a quick, hurried way and run like a mouse
25. To run swiftly, especially when competing with other runners in a contest
26. To move suddenly and swiftly down upon prey as hawks do to pick up chickens
27. To move suddenly and jump or spring upon prey as cougars do upon cattle
28. To move back and forth or to fluctuate between opposing beliefs
29. To move by flapping the wings as a butterfly does in going from flower to flower
30. To pitch or throw one's self forward as in jumping or diving into deep water
31. To float or be carried along as if by a current of water or air

gallop  
activate  
grace  
illustrate  
beastly  
spring  
fluctuate  
flap  
pitch  
drift

#### IV. DESTROY

32. To destroy the unity and organization of a defeated army and reduce it to nothing  
33. To ruin or damage something by violence as a collision of two cars does  
34. To put an end to something like a law, an institution or a custom  
35. To ruin the mass or structure of something by tearing it apart and separating or breaking it into pieces  
36. To strip something like a ship or locomotive of furniture and equipment  
37. To destroy a building by tearing it down level with the ground  
38. To break or crush something into small pieces or shatter it like a window or an egg  
39. To destroy and eradicate mice, rats and other rodents  
40. To quench and put out a fire or a light  
41. To open holes in the deck and sides of a ship in order to sink and destroy it  
42. To put down or crush a revolt by authority, force or pressure  
43. To squander one's energy and money foolishly in search of pleasure

*annihilate*  
*smash up*  
*do away*

#### V. AID

44. To help by cooperating with another person, especially to support a superior in rank  
45. To give money or to supply food for a common cause or charity  
46. To provide a house with chairs, beds and other things for comfort and convenience  
47. To allow a friend to use a tool on condition that it will be returned  
48. To help a person by freeing him from worry or pain  
49. To save, deliver or liberate a person from danger or injury  
50. To provide recreation and amusement for guests  
51. To favor a person by giving or doing something he particularly desires  
52. To speed up a process like delivery of an important document  
53. To help a store by trading there and supporting the policy of its owners

*surround*  
*relieve*

#### VI. ADD

54. To add or introduce a word in a sentence or a paragraph between other words  
55. To join one thing to another, especially in adding conquered territory to a nation  
56. To add something at the end of a book or paper previously organized  
57. To strengthen something by adding extra thickness  
58. To add a syllable at the beginning of a word  
59. To increase, enlarge and expand, especially sound through a loudspeaker  
60. To add the numbers in a column to find an amount

## VII. COOK

61. To cook a large piece of meat or other food in an oven
62. To cook bread and pastry in an oven
63. Without grease, to cook meat or fish rapidly in order to seal juices on inside
64. To cook the entire carcass of a pig or chicken before an open flame
65. To burn meat or potatoes slightly while boiling them over a fire
66. To heat milk or soups just to the boiling point
67. To boil meat and onions, potatoes or other vegetables together to make a meal
68. To cut chicken or veal meat into small pieces and boil in a gravy

broil  
bake  
broil  
broil  
broil  
broil  
broil  
broil

## VIII. DECREASE

69. To shorten words like names of states by leaving out letters and using periods
70. In surgery, to cut off a leg or finger or arm of a person
71. To cut out dead branches from trees or shrubs in the spring
72. To shorten and condense a story or a dictionary
73. To grow dim or diminish gradually as the moon does after being full
74. To contract and become less in size as some cloth does when wet
75. To fail and draw to a close as the career of a great man appears to do
76. To become smaller and smaller in amount or size as a pile of sand will do
77. To decrease in value as an automobile does with age and hard service
78. To reduce or lessen a bill by a certain per cent if paid before a set date
79. To diminish and become less violent as a bad storm does near its finish
80. To cut down and reduce or diminish production in a factory

abridge  
amputate  
prune  
condense  
diminish  
contract  
draw  
draw  
draw  
draw  
draw  
draw  
draw  
draw  
draw

## IX. COMBINE

81. To mix and make a union of at least two different things like mercury and silver
82. To reduce the purity of gold by mixing it with a less valuable metal
83. To unite or combine into one company as two steamship companies might do
84. To join as members of a business or commercial firm recognized by law
85. To blend or unite two or more things as if they were melted together
86. To take or suck up another substance as a blotter does water or ink
87. To glue, paste or fasten two things together so that they adhere closely
88. To join a lodge or other social organization for common fellowship

combine  
combine  
combine  
combine  
combine  
combine  
combine  
combine



## X. MAKE CLEAN or PURE

89. To free a doctor's instruments of all living germs or microbes
90. To heat milk to a certain temperature in order to kill most harmful germs
91. To use gases, smoke or vapors to free a room of insects or germs
92. To wash and treat the hair and scalp
93. To cause fresh air to circulate through a room
94. To wash clothes with soap and water in order to clean them
95. To clean a floor by using a stiff brush and water with strong soap
96. To cleanse and purify a person in religious rites at a church service

sterilize  
pasteurize  
disinfect  
scrub  
confess

## XI. OPEN

97. To cleave or divide a log or rail lengthwise with the grain
98. To make holes in paper, cloth or wood by boring, piercing or punching
99. To make a hole in a tire by piercing with a sharp tack or piece of glass
100. To introduce and admit a person into a lodge with an impressive ceremony
101. To make known and exhibit a treasure that had been concealed
102. To bring to light and disclose the faults or crimes of a government official
103. To introduce and induct a governor into his office with a formal ceremony
104. To pierce and cut open a boil or a vein

split  
drilling  
pierce  
induct  
uncover  
open

## XII. PASS

105. To quit or leave or go forth from a place
106. To slip or pass away as time does
107. To disappear suddenly and completely from sight
108. To advance or continue on a trip, especially if interrupted
109. To pass or make a bill into a law as Congress does
110. To approve and confirm a treaty, contract, appointment, or constitution
111. To be better, greater or stronger than another person
112. To befall or take place as any event comes to pass or occurs
113. To pass through and pervade a loose substance as water does in sand
114. To pass or move around a course and return as blood does in the body
115. To cut across and divide by passing through, as streets and roads do
116. To move across or over a country in traveling

quit  
pass  
approve  
prevail  
travel

VOCABULARY TEST — NOUN (*Recall*)

Wait for your teacher to tell you when to start the test.



## I. YOUNG

1. A hen or female chicken that is less than a year old
  2. A very young frog with its gills and tail
  3. The young of a horse or zebra
  4. The young of a bear or lion
  5. The wormlike form of some insects hatched from eggs, as flies and moths are
  6. The young of a cow or an elephant or a buffalo
  7. The young of a cat or a tiger
  8. The young of a goat
  9. A very small and usually young fish, especially of the trout family
  10. The young of a deer (doe) especially when only a few weeks old
  11. An infant or a very young child of American Indian parents
  12. A young bird without the necessary feathers for flying
- 

## II. GROUP

13. A large group of dogs or wolves that run and hunt together
  14. A large group of cattle, reindeer or horses that pasture together
  15. A bunch of sheep or geese or chickens
  16. A group of pretty girls, or a group of quail
  17. A throng of herring or sardines swimming or feeding together
  18. A throng of bees or other insects, especially when in motion in the air
  19. A loosely organized clan or tribal group of Mongolian nomads
  20. A group of cattle, horses or mules either being driven or collected for driving
  21. An armed group of men led by an officer of the law in search of an escaped convict
- 

## III. BOOK

22. The text and words of a musical composition like an opera or operetta
  23. The small handbook with instructions for doing something or using something
  24. A collection of printed material or part of a written work bound together in a set
  25. A publication appearing at regular intervals during a year or month
  26. A small paper-covered booklet of printed matter
  27. A written record with regular entries of births, deaths, or names of voters
  28. A collection of poems, epigrams or other beautiful passages from literature
  29. A book with tables and many calendars with astronomical data and various statistics
-

#### IV. HAIR

- 30. The beard that grows on the sides and chin of a man's face
- 31. The hair on a person's head that is worn or dressed high above the forehead
- 32. The soft, fluffy growth of fuzz or feathers on people or birds
- 33. The long heavy hair growing on top of the neck of a horse or lion
- 34. The heavy hair or beard growing on a man's upper lip
- 35. The short, stiff, coarse hair growing on the back of a pig
- 36. The fringe of hair at the edge of the eyelid
- 37. The short, thick hair, crisped and curled, on a sheep's pelt

*beard*  
*hair*  
*fuzz*  
*mane*  
*mustache*  
*hog*  
*eyelash*  
*wool*

#### V. PART

- 38. A part cut from a geometric figure by a line or plane
- 39. A broken or imperfect part of anything
- 40. A section or part of anything given to a particular person as his share
- 41. A piece or mass of coal or wood, indefinite or irregular in shape
- 42. A very small, thin piece that is cut, chopped or broken off, as with wood or ice
- 43. A short thick piece of something, as with irregular blocks of wood or ice
- 44. A small detached or loose bit of something like paper or cloth
- 45. A very, very small bit of something like cake or bread or crackers
- 46. A very minute bit of something like dust or rock
- 47. A very small piece of something like sand, sugar or salt

*piece*  
*section*  
*section*  
*section*  
*crumb*  
*crumb*

#### VI. END

- 48. The close or termination or the last section of a musical composition
- 49. The end of a race or journey or one of the end markers for a football field
- 50. The rear end of a vessel or a boat
- 51. An armistice or brief quiet in a war when both sides agree to stop fighting
- 52. The punctuation mark which indicates the end of a sentence
- 53. The end of a division for a railroad line or for a bus system
- 54. The date or set time on which a note, bond or mortgage becomes due
- 55. The date or the set time on which a law ceases to be in force
- 56. The end of prison life for a convicted criminal when he is hanged or electrocuted
- 57. The end of life for a king, a great leader or other famous person
- 58. The event in a drama when calamity and misfortune lead to a disastrous conclusion

*end*  
*end*  
*end*  
*armistice*  
*period*  
*division*  
*term*  
*term*  
*term*  
*term*  
*term*



## VII. THIEF

- 59. One who illegally imports or exports goods without paying duties or customs
  - 60. A bandit or lawless fellow living by plunder, usually in a group of outlaws
  - 61. A robber on the high seas with an armed ship or vessel
  - 62. One who takes and passes off as his own, the ideas or writings of another person
  - 63. One who goes on to private land to kill game or to fish illegally
  - 64. A thief who picks up goods for sale on counters in a store or market
  - 65. One who tries to get money from noted people by threatening to expose their lives
  - 66. One who cuts out or gathers up horses and cattle to keep or sell as his own
  - 67. A person who passes for someone else — especially for a famous personage
- 

## VIII. ASSEMBLY or MEETING

- 68. Meeting of a small group of professional people who consult and exchange ideas or views
  - 69. The group of officials elected to consult and advise the mayor of a city
  - 70. The group of judges who administer justice in city or county government
  - 71. A meeting of delegates for common purposes of a social or political organization
  - 72. The organized group of appointed advisors to the president of the United States
  - 73. The assembly of people gathered to see and hear an opera or a drama
  - 74. An organized body of officials with power to make or amend laws for a state
  - 75. An assembly of people who desire to worship God, usually in a church
  - 76. An organized branch or local body of a lodge or fraternity
  - 77. A meeting between an employer and applicant to gain information about each other
- 

## IX. LIGHT

- 78. The bright, dazzling, blinding light of sun on ice or other glassy surface
  - 79. The first beams or streaks of light as the sun rises in the morning
  - 80. A circle or crown of light around the head of a saint or idealized character
  - 81. The high shine or luster of new paint or enamel or varnish
  - 82. A sudden burst of light as from lightning or a discharged gun
  - 83. The bright sparkling light given off by crystal beads or diamonds
  - 84. The burning gas or vapor at the top of a candle or torch
  - 85. The light and heat coming from a fire started in dry sticks
  - 86. The small particle of fire given off when iron strikes flint
-

## X. INCLOSURE

- 87. A pen or inclosure for holding or rounding up animals — horses and cattle
- 88. A small inclosure near stables at a race track where horses are exercised
- 89. Grassland or a lot with green feed for grazing and feeding stock of any kind
- 90. The inclosure maintained by the Humane Society for holding stray dogs and cats
- 91. An inclosure or pen for pigs or swine
- 92. The compartment of a stable or barn for one horse or one cow
- 93. A dam of stakes and brush set in a river or tidewater to catch fish
- 94. Wood, brick or stone work raised to make the four sides of a house or room
- 95. A deep, wide trench or ditch built around a castle for protection
- 96. A large cage or small enclosure for poultry or chickens
- 97. An inclosure or pen for sheep

*carle*  
*inclosure*  
*shoed*  
*stay*  
*well*  
*cast*  
*can*  
*heron*

## XI. EVILDOER

- 98. Any cruel master, or king who exercises absolute power to oppress people brutally
- 99. Any man or human being that eats human flesh
- 100. Anyone who works to overthrow all present government and social order in the world
- 101. Anyone who deliberately and wilfully sets fires to destroy buildings
- 102. An evil mythical hag or crone who rides a broomstick
- 103. Any being or character who is diabolically wicked or especially mean and cruel
- 104. Greek mythical characters, half bird — half woman, who lured sailors to their death
- 105. An evil spirit with horns, usually depicted as dressed in red
- 106. Any person who violates his allegiance and betrays his country

*dictator*  
*canibal*  
*anarchist*  
*witch*  
*evil*  
*evil*

## XII. INSTRUMENT

- 107. An optical instrument to aid the eye in viewing stars and planets
- 108. An optical instrument with lenses that magnify very small objects
- 109. An instrument for measuring air pressure to determine changes in weather
- 110. An apparatus on railroad tracks that signals by changing lights, flags or arms
- 111. An instrument with magnetic needles used to find directions
- 112. An apparatus to register shocks and motions of earthquakes
- 113. An instrument for intensifying and transmitting sound in a radio station
- 114. An instrument for recording and reproducing sounds and words or songs and music
- 115. An instrument for measuring altitudes in surveying, astronomy or gunnery

*telescope*  
*microscope*  
*barometer*  
*signal*  
*compass*  
*seismograph*  
*radio*  
*phonograph*  
*altimeter*

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